

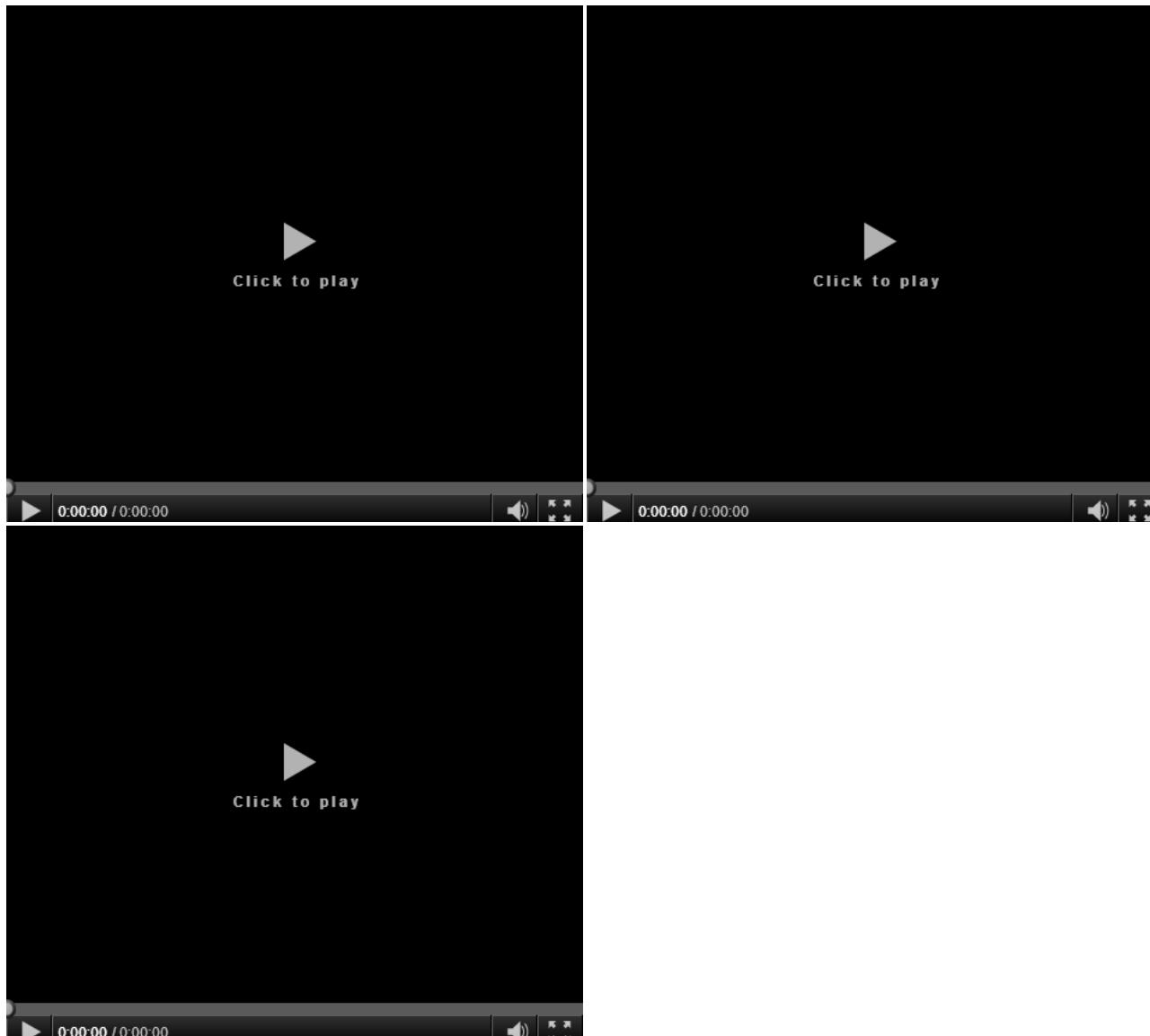
## Declassified effects of nuclear weapons and other threats: minimizing weapons effects on civilians

Can Britain and America prevail over an alliance of Russia, China, Iran and North Korea in WWIII? American sanctions on Japan in 1940 led to Pearl Harbor on 7 December 1941, so beware of the lessons of history Mr President, and get civil defense

Friday, February 28, 2014

Can Britain and America prevail over an alliance of Russia, China, Iran and North Korea in WWIII? The anti-nuclear biased High Representative of the European Union for Foreign Affairs, Baroness Catherine Ashton (salary £250,000), never-elected, is behind the WWIII risk today (American sanctions on Japan in 1940 led to Pearl Harbor on 7 December 1941, so beware of the lessons of history Mr President, and get civil defense)





Anti-nuclear biased "High Representative of the European Union for Foreign Affairs" Baroness Catherine Ashton (salary £250,000), a never-elected European Union top-dog, is the ultimate cause of Russia's invasion of Ukraine

Leo McKinstry in the *Daily Express* (3 March 2014, page 12) argues ex CND Vice-Chairman Baroness Catherine Ashton (now High Representative of the European Union for Foreign Affairs), provoked the Russian invasion of Ukraine by trying to steal Ukrainian sovereignty for the European Union:

"Baroness Catherine Ashton, who goes by the grand title of High Representative of the European Union for Foreign Affairs ... does not have a shred of credibility. She might be paid over £250,000 a year and be head of a vast EU diplomatic operation costing an annual £442 million, but

she is a lightweight socialist apparatchik who has never been elected to any public position. She ... was vice-chair of that posturing gang of noisy defeatists, the Campaign for Nuclear Disarmament. ... Baroness Ashton ... helped to provoke the current crisis ... The EU has been desperate to extend its sphere of influence. Ukraine ... was a prime target."

Mr McKinstry needs to compare in quantitative detail the level of corruption and slaughter financed by corrupt EU projects (like funding third world tobacco farmers to cause lung cancer in addition to the "warmongering" politics behind the current Ukraine crisis), with the "eugenics for ethnic fitness" of dictatorships like the USSR. He writes softly instead (*Daily Express* article of 6 March 2014, page 12):

"Because the EU's officials are not answerable to the peoples of the nation states ... Brussels overspent its budget last year by a shocking £20 billion. ... far exceeds anything achieved by oil company Enron. ... we have to pay £14 billion every year in our annual contribution ... a protection racket that fails to provide any protection. ... its own auditors have not given its accounts a clean bill of health for the past 18 years. Brussels has an annual budget of £133 billion ... the EU spends £2.4 billion a year on marketing and publicity ... European officials take an average of 14.6 days off sick every year ... When its Court of Auditors in 2013 found "serious failures" in the award of EU contracts for a £13 billion pipeline between Hungary and Romania the EU said with typical insouciance, "We interpret the rules differently." [This was precisely Putin's response to corruption claims over the Winter Olympics.] ... the EU's foreign service ... has 37 staff in Papua New Guinea and 32 in Mozambique."

Paul Mercer gives the following 1983 flowchart in his excellent anti-propaganda book, *'Peace' of the Dead: The Truth Behind the Nuclear Disarmers* (Policy Research Publications, London, 1986), page 91:

**Soviet Union Politburo**, Candidate Member: *Boris Ponomarev*  
|  
**Central Committee of the Soviet Communist Party**, Secretary: *Boris Ponomarev*  
|  
**International Department**, Head: *Boris Ponomarev*; Oleg Kharkhardin (Vice-President of Soviet Peace Committee)  
|  
**World Peace Council**, President: Romesh Chandra; Oleg Kharkhardin (Vice-President of Soviet Peace Committee)  
|  
**International Liaison Forum of Peace Forces**, Chairman: Romesh Chandra; Executive Secretary: Oleg Kharkhardin; Vice-Chairmen: Arthur Booth and Sean MacBride  
|  
(member body)  
|  
**International Peace Bureau**, Chairman: Arthur Booth; President: Sean MacBride; Vice-President: Bruce Kent  
|  
(member body)  
|  
**Campaign for Nuclear Disarmament (CND)**, General Secretary: Bruce Kent; Irish CND Committee: Sean MacBride

Mercer states that the delegation which CND sent to Moscow in May 1982 consisted of Lord Hugh Jenkins (1980-1 CND Chairman), Joan Ruddock (then the current CND Chairman), Roger Spiller (who was soon to be elected Vice-Chairman of CND), Sally Davison (full-time National Organiser of CND, 1979-81), and Gerard Holden. On 31 May 1982, Joan Ruddock, the Chairman of CND, was in session with Yuri Zhukov, the Chairman of the Soviet 'World Peace Council' anti-Western propaganda lobby. Soviet news agency TASS on 28 May 1982 reported that Lord Jenkins said CND 'had a high opinion of the Soviet peace initiative', neglecting all the Soviet funded invasions and wars on democracy throughout the world! CND's control by Soviet communism continued right up to the end of the Cold War. For example, see Dr Julian Lewis's article, 'CND's New Stalinist Leader' in the December 1990 issue of *Freedom Today* ([available online](#)):

'CND has appointed the former National Organiser of the British branch of the World Peace Council (WPC) as its new General Secretary – the position held by Bruce Kent when leading CND in the early 1980s. Mr Gary Lefley, who takes up CND's top full-time salaried post in the new year, can accurately be described as an agent of President Brezhnev's propaganda machine at the height of the Soviet "peace offensive" against NATO's planned deployment of cruise and Pershing II missiles. ... Before the 1983 General Election, CND published a list of 120 Labour MPs amongst its members. This total had risen to 133 by the time of the 1987 General Election. Currently, CND refuses to reveal either the total or the names of their supporters in the Parliamentary Labour Party. This is undoubtedly because it would run counter to Labour's attempts to conceal its continuing unilateralism. Now that the organisation is to be run by a propagandist for the Brezhnev regime, there is yet another reason for Labour's CND MPs to keep their membership a secret.'



Army personnel helps to put sand bags in the village of Wraysbury, Berkshire [EPA]

## Let charity begin at home with a civil defence corps

**POLITICS** is all about priorities. In an ideal world we would all like to be able to spend unlimited funds helping everyone who is in need. But in the real world you have to decide which causes are the most deserving. And when any government sees its own citizens suffering it is only common sense to say that they must come first. For all of us who truly believe in Britain it is obvious that our obligation to our compatriots when they are in need and in peril must constitute the highest claim on our collective talents and resources.

I am convinced a civil defence corps, organised on a county basis, could have ensured people would not have been abandoned for so long. Meeting Ravinder Singh and his Sikh volunteers on the Somerset Levels on Sunday, I was struck by his complaint of having had no official point of contact to tell him how best to help. We used to have just such a civil defence arm but it was abolished by Harold Wilson back in the 1960s – another era when a silly consensus had taken hold that suggested everything should be left to the state. But why not use the expertise and goodwill that exists among private citizens by giving them a local place to go to offer their services and find out how they can help?

*The old civil defence corps performed sterling service in the aftermath of the Aberfan colliery disaster, the Lewisham rail crash and other post-war emergencies. [Precisely why evil thugs abolished it in 1968, see comments below this post for detailed discussion about deceitful anti-civil defense fanatics.]*

- Nigel Farage, head of the United Kingdom Independence Party (UKIP), the only democratic party, <http://www.express.co.uk/comment/expresscomment/459695/Let-charity-begin-at-home-with-a-civil-defence-corps>, *Daily Express*, 14 February, 2014.



TOP SECRET UK NATIONAL ARCHIVES  
REFERENCE CAB 175/4

## CABINET OFFICE WAR BOOK

## CHAPTER 2

## ACTION IN THE EVENT OF AN ATTACK WITHOUT WARNING

1. It would be possible for a potential enemy to launch a full-scale nuclear attack against this country without any readily detectable preparations. We might therefore (if there had been no period of tension to alert us) have very little time - possibly less than an hour - in which to prepare.

2. Beyond the instant alerting of the Air Defence System and any nuclear retaliation forces, it is not considered practicable to make any detailed plans for such a situation.

3. Immediate action required by the Cabinet Office is given below, and further action would be decided upon ad hoc at the time.

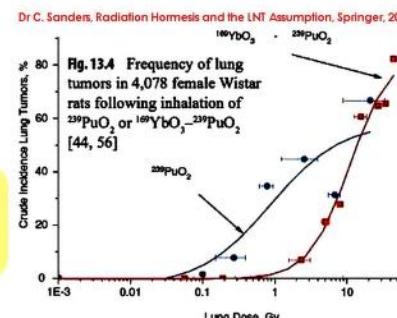
Cabinet Office Serial No	Corresponding Government War Book Measure	Action to be taken	Observations
(a)	(b)	(c)	(a)
		<p><u>On receipt of information from Chief of the Air Staff that an attack on this country is imminent -</u></p> <p>SECRETARY -</p> <p>(a) Confirm with the Private Secretary to the Prime Minister where Cabinet meeting is to be held.</p> <p>(b) Inform the following of events and of the location of the meeting -</p> <p>(i) Foreign Secretary (ii) Home Secretary (iii) Secretary of State for Defence (iv) Chief of the Defence Staff</p>	<p>The Chief of the Air Staff will have made necessary dispositions to avoid loss of aircraft on the ground by enemy action. He will also have informed the Prime Minister, Secretary of the Cabinet and the Chief of Defence Staff.</p>
CAB.1	Appendix Z. Serials Z.3 and Z.4	<p>SECRETARY -</p> <p>(a) Confirm with the Private Secretary to the Prime Minister where Cabinet meeting is to be held.</p> <p>(b) Inform the following of events and of the location of the meeting -</p> <p>(i) Foreign Secretary (ii) Home Secretary (iii) Secretary of State for Defence (iv) Chief of the Defence Staff</p>	
CAB.2	Appendix Z. Serial Z.5	<p>SECRETARY -</p> <p>Proceed immediately to meeting with Prime Minister and other Ministers and Chief of the Defence Staff</p>	<p>At the meeting the Private Secretary to the Prime Minister will arrange for the latter to speak to the President of the United States.</p>

Inactive p53      Active p53

radiation



Prevention of cancer or genetic defect  
at low dose rates (at high dose rates,  
double strand DNA breaks are too rapid)

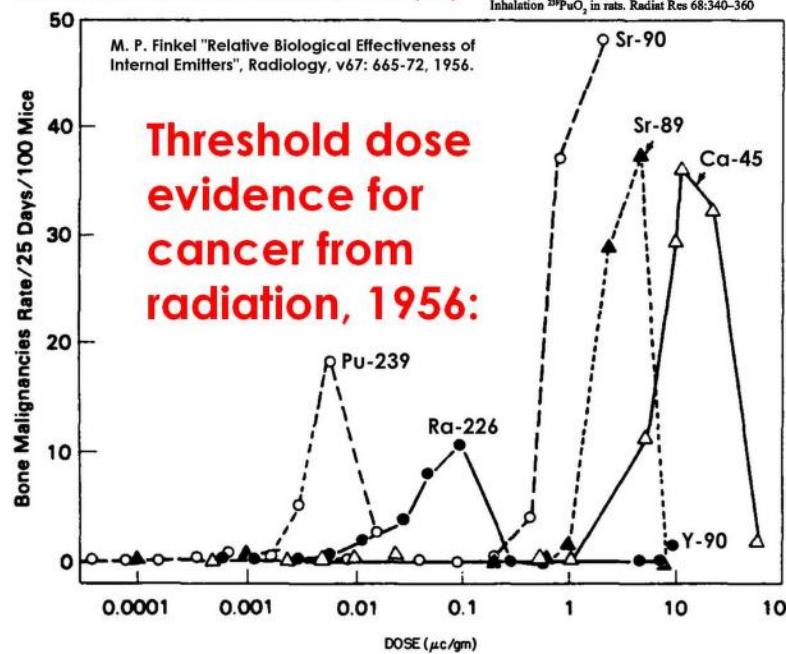


44. Sanders CL, Lauhala KE, McDonald KE (1993) Lifespan studies in rats exposed to  $^{239}\text{PuO}_2$  aerosol. III. Survival and lung tumors. *Int J Radiat Biol* 64:417-340  
56. Sanders CL, Dagle GE, Cannon WC et al (1976) Inhalation  $^{239}\text{PuO}_2$  in rats. *Radiat Res* 68:340-360

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M. P. Finkel "Relative Biological Effectiveness of Internal Emitters", Radiology, v67: 665-72, 1956.

Threshold dose  
evidence for  
cancer from  
radiation, 1956:



[Radiation Scare Mongering Debunked](#)

UK NATIONAL ARCHIVES: ES 5/3

~~SECRET~~ SECRET-GUARD

Misc./P (54) 29  
27th August, 1954

DEPARTMENT OF ATOMIC ENERGY  
ATOMIC WEAPONS RESEARCH ESTABLISHMENT

**SCIENTIFIC DATA OBTAINED AT  
OPERATION HURRICANE**

TOP SECRET SECTION OF DIRECTOR'S REPORT

*Issued by*  
Ministry of Defence,  
London, S.W. 1.

27th August, 1954

[British nuclear test Operation Hurricane - secret reports to Winston Churchill and civil defense data obtained](#)

U.K. National Archives:

S E C R E T

**Extracts from Khrushchev's letter  
to Kennedy, 26 October 1962  
(Catalogue ref: PREM 11/3691)**

## QUOTE

Dear Mr. President:

I have received your letter of October 25. From your letter, I got the feeling that you have some understanding of the situation which has developed and (some) sense of responsibility. I value this.

Now we have already publicly exchanged our evaluations of the events around Cuba and each of us has set forth his explanation and his understanding of these events. Consequently, I would judge that, apparently, a continuation of an exchange of opinions at such a distance, even in the form of secret letters, will hardly add anything to that which one side has already said to the other.

I think you will understand me correctly if you are really concerned about the welfare of the world. Everyone needs peace: Both capitalists, if they have not lost their reason, and still more, Communists, people who know how to value not only their own lives but, more than anything, the lives of the people. We, Communists, are against all wars between states in general and have been defending the cause of peace since we came into the world. We have always regarded war as a calamity, and not as a game nor as a means for the attainment of definite goals, nor, all the more, as a goal in itself. Our goals are clear, and the means to attain them is labor. War is our enemy and a calamity for all the peoples.

It is thus that we, Soviet people, and, together with us, other peoples as well, understand the questions of war and peace. I can, in any case, firmly say this for the peoples of the Socialist countries, as well as for all progressive people who want peace, happiness, and friendship among peoples.

I see, Mr. President, that you too are not devoid of a sense of anxiety for the fate of the world, of understanding, and of what war entails. What would a war give you? You are threatening us with war. But you well know that the very least which you would receive in reply would be that you would experience the same consequences as those which you sent us. And that must be clear to us, people invested with authority, trust, and responsibility. We must not succumb to intoxication and petty passions, regardless of whether elections are impending in this or that country, or not impending. These are all transient things, but if indeed war should break out, then it would not be in our power to stop it, for such is the logic of war. I have

participated in two wars and know that war ends when it has rolled through cities and villages, everywhere sowing death and destruction.

In the name of the Soviet Government and the Soviet people, I assure you that your conclusions regarding offensive weapons on Cuba are groundless. It is apparent from what you have written me that our conceptions are different on this score, or rather, we have different estimates of these or those military means. Indeed, in reality, the same forms of weapons can have different interpretations.

You are a military man and, I hope, will understand me. Let us take for example a simple cannon. What sort of means is this: offensive or defensive? A cannon is a defensive means if it is set up to defend boundaries or a fortified area. But if one concentrates artillery, and adds to it the necessary number of troops. Then the same cannons do become an offensive means, because they prepare and clear the way for infantry to attack. The same happens with missile - nuclear weapons as well, with any type of this weapon.

You are mistaken if you think that any of our means on Cuba are offensive. However, let us not quarrel now. It is apparent that I will not be able to convince you of this. But I say to you: You, Mr. President, are a military man and should understand: Can one attack, if one has on one's territory even an enormous quantity of missiles of various effective radii and various power, but using only these means? These missiles are a means of extermination and destruction. But one cannot attack with these missiles, even nuclear missiles of a power of 100 megatons because only people, troops, can attack. Without people, any means however powerful cannot be offensive.

Armaments bring only disasters. When one accumulates them, this damages the economy, and if one puts them to use, then they destroy people on both sides. Consequently, only a madman can believe that armaments are the principal means in the life of society. No, they are an enforced loss of human energy, and what is more are for the destruction of man himself. If people do not show wisdom, then in the final analysis they will come to a clash, like blind moles, and then reciprocal extermination will begin.

Let us therefore show statesmanlike wisdom. I propose: We, for our part, will declare that our ships, bound for Cuba, will not carry any kind of armaments. You would declare that the United States will not invade Cuba with its forces and will not support any sort of forces which might intend to carry out an invasion of Cuba. Then the necessity for the presence of our military specialists in Cuba would disappear.

Above: pages 322-323 of the PDF compilation linked [here](#); Khrushchev blinked first after President Kennedy, on 22 October 1962, stated in his TV address to the American public and the world: "The 1930's taught us a clear lesson: aggressive conduct, if allowed to go unchecked and unchallenged, ultimately leads to war. This nation is opposed to war. We are also true to our word. Our unswerving objective, therefore, must be to prevent the use of these missiles against this or any other country, and to secure their withdrawal or elimination from the Western Hemisphere. ... To halt this offensive buildup a strict quarantine on all offensive military equipment under shipment to Cuba is being initiated. All ships of any kind bound for Cuba from whatever nation or port will, if found to contain cargoes of offensive weapons, be turned back. This quarantine will be extended, if needed, to other types of cargo and carriers. We are not at this time, however, denying the necessities of life as the Soviets attempted to do in their Berlin blockade of 1948. ... I have directed the Armed Forces to prepare for any eventualities ... It shall be the policy of this nation to regard any nuclear missile launched from Cuba against any nation in the Western Hemisphere as an attack by the Soviet Union on the United States, requiring a full retaliatory response upon the Soviet Union." This response was based in part on Kennedy's own experience of appeasement in 1939 in the American Embassy in London while writing his thesis and book *Why England Slept*, and partly on the basis of strategists like Herman Kahn, who Kennedy

observed at the June 1959 congressional hearings on the *Biological and Environmental Effects of Nuclear War* (Kahn's testimony there is more concise than his 1960 book *On Thermonuclear War*). Strategists like Kahn addressed the problem of how to deal with dangerous provocations without encouraging further aggression by simply waving a white flag or appeasing the aggressor (as Grey did to the Kaiser in 1914, and as Chamberlain did to Hitler in 1939).

Being nice to thugs just makes things worse. So you have to be tough yet undeniably reasonable to avoid tit-for-tat escalations:

[Biological and Environmental Effects of Nuclear War](#)

Search inside

GO

Representative HOLIFIELD. Now, we are going to change our order of witnesses a little.

We have just received a phone call on Dr. Libby's airplane. It is en route between New York City and Washington Airport. So we are going to move up Mr. Herman Kahn, Center of International Studies, Princeton University, who presently is on leave from the Rand Corp. Mr. Kahn is a distinguished lecturer and educator and a student of this problem. He is one of the real experts of the Rand Corp., which has done many studies for the military departments.

If I could get Mr. Kahn not to talk as fast as he usually does, maybe we can follow him.

**STATEMENT OF HERMAN KAHN,<sup>1</sup> CENTER OF INTERNATIONAL STUDIES, PRINCETON UNIVERSITY**

MR. KAHN. I will do my best.

Representative HOSMER. I think, Mr. Chairman, that Mr. Kahn and the people who have worked with him have given this subject the closest scrutiny that it has ever been given. I think we are fortunate indeed to have him before us.

MR. KAHN. Thank you very much.

Representative HOLIFIELD. I notice that you have been here every day. You have seen a congressional committee in action over a long period of time now. I think you have a concept now of the laborious method by which we put things on record.

MR. KAHN. I am impressed with how fast you do it. We spent a year and a half; and you have covered about the same ground in 4 days of testimony.

Representative HOLIFIELD. You see, you folks are not as expert as the committee.

MR. KAHN. I would like to make it clear that I am appearing here as an individual. While many of the points I make will be based on work I and my colleagues have done at the Rand Corp. in 1957 and further work done at the university, the formulation, presentation, and opinions are my own. Because of the controversial nature of some of my remarks, it is very important to make this very clear.

I recently had occasion to give three lectures on thermonuclear war in New York City. One member of this committee and several members of the staff attended these lectures. I have been asked to summarize those aspects of the lectures which would be most appropriate to the function of this committee and in light of the testimony that has been heard.

The lectures were long. They took about 7 hours to give and there were about 4 hours of discussion available to amplify the remarks I made. And, on the whole, the audience was an expert audience. The reason for emphasizing these points is that I am going to have to be very light today; some of the things I will say need many qualifications, but for the sake of continuity of discussion and for the sake of just moving along, I will not be able to make all of these qualifica-

<sup>1</sup> Undergraduate work at UCLA. Graduate work at California Institute of Technology. With Rand Corp. for 10 years. November 1958 to present. On leave of absence since January 1960 and now with Center of International Studies, Princeton University.

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REFERENCE CAB 175/4

CABINET OFFICE WAR BOOK

CHAPTER 2

ACTION IN THE EVENT OF AN ATTACK WITHOUT WARNING

1. It would be possible for a potential enemy to launch a full-scale nuclear attack against this country without any readily detectable preparations. We

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ANNEX B to  
CHAPTER 2

IMPLEMENTATION OF GOVERNMENT WAR BOOK MEASURES

Cabinet Office War Book Serial No.	Corresponding Government War Book Measure	Action to be taken	Remarks

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Action to be taken

might therefore (if there had been no period of tension to alert us) have very little time - possibly less than an hour - in which to prepare.

2. Beyond the instant alerting of the Air Defence System and any nuclear retaliation forces, it is not considered practicable to make any detailed plans for such a situation.

3. Immediate action required by the Cabinet Office is given below, and further action would be decided upon ad hoc at the time.

Cabinet Office Serial No.	Corresponding Government War Book Measure	Action to be taken	Observations
(a)	(b)	(c)	(d)
		<u>On receipt of information from Chief of the Air Staff that an attack on this country is imminent -</u>	The Chief of the Air Staff will have made necessary dispositions to avoid loss of aircraft on the ground by enemy action. He will also have informed the Prime Minister, Secretary of the Cabinet, Secretary of the War Office, M.C. and the Chief of Defence Staff.
CAB. 1	Appendix Z, Serials Z.3 and Z.4	<b>SECRETARY -</b> (a) Confirm with the Private Secretary to the Prime Minister where Cabinet meeting is to be held. (b) Inform the following of events and of the location of the meeting: (i) Foreign Secretary (ii) Home Secretary (iii) Secretary of State for Defence (iv) Chief of the Defence Staff	
CAB. 2	Appendix Z, Serial Z.5	<b>SECRETARY -</b> Proceed <u>immediately</u> to meeting with Prime Minister and other Ministers and Chief of the Defence Staff	At the meeting the Private Secretary to the Prime Minister will arrange for the latter to speak to the President of the United States.

-9-

October 1966

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# TOP SECRET UK NATIONAL ARCHIVES REFERENCE CAB 175/4

## CABINET OFFICE WAR BOOK

### CHAPTER 2

#### ACTION IN THE EVENT OF AN ATTACK WITHOUT WARNING

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2. Beyond the instant alerting of the Air Defence System and any nuclear retaliation forces, it is not considered practicable to make any detailed plans for such a situation.

3. Immediate action required by the Cabinet Office is given below, and further action would be decided upon ad hoc at the time.

(1)	(2)	(3)	(4)	(1)	(2)	(3)	(4)
CAB. 3	-	<u>On receipt of any information which is considered by the Current Intelligence Groups to constitute a positive indication that an attack on this country is to be expected</u>	<b>SECRETARY JOINT INTELLIGENCE COMMITTEE (JIC) -</b> (a) Call immediate meeting of JIC, to which American and Canadian representatives are to be invited. (b) Warn - (i) Secretary of the Cabinet (ii) Defence Secretariat, Cabinet Office (iii) Secretary, Chiefs of Staff Committee (or, out of working hours, Defence Operations Centre Duty Officer, MOD) Intelligence procedure on receipt of a possible indicator is set out in detail in Chapter IV of the JIC Watch Manual (JIC/66) 6 (Final))	CAB. 13	Part II Serial 1.9	<u>On receipt of notification from JIC that an attack is to be expected</u>	<b>SECRETARY -</b> summon a meeting of the Cabinet to which the Chiefs of Staff are invited.
CAB. 4	Appendix Z Group A Serial 1.1	<u>If JIC agrees that a nation of the Soviet Bloc is about to engage in hostilities with this country -</u>	<b>SECRETARY, JIC -</b> Inform - (a) Private Secretary to the Prime Minister (b) Secretary of the Cabinet (and Defence Secretariat, Cabinet Office) (c) Home Secretary (d) Foreign Secretary (e) Secretary of State for Defence (f) Chief of the Defence Staff (g) United States and Canadian Intelligence Authorities (h) Standing Group and NATO Supreme Comanders, as appropriate	CAB. 14	Part II Serial 1.10	<u>At the meeting of the Cabinet</u> (a) <b>SECRETARY -</b> arrange for the Cabinet to consider - (i) whether the Precautionary Stage should be instituted; (ii) if so, whether decisions A.1 and A.2 or any other decisions in Part I should be authorised; (iii) whether a request from NATO Supreme Commanders to declare a Simple Alert should be approved; (iv) whether the United States and Commonwealth Governments and NATO should be informed of any decision to institute the Precautionary Stage. (b) remind the Cabinet - (v) that unobtrusive measures to improve the state of readiness of the Royal Air Force have been initiated; (vi)	<b>Detail abouts Minist Duty 0</b> <b>At an in the Prime speak of the to dis retaili mea declare Alerts Supre</b> <b>THIS IS A COPY. TH RETAINED UNDER S OF THE PUBLIC RE</b>

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ref.: HO 225/116	The National Archives						
C.F.005.94							

3rd October, 1963.

RESTRICTED *for F. H. Pavry*

for F. H. Pavry

HO 225/116

HOME OFFICE  
SCIENTIFIC ADVISER'S BRANCH

CD/SA 116

#### RESEARCH ON BLAST EFFECTS IN TUNNELS

With Special Reference to the Use of London Tubes as Shelter

by F. H. Pavry

#### Summary and Conclusions

The use of the London tube railways as shelter from nuclear weapons raises many problems, and considerable discussion of some aspects has taken place from time to time. But - until the results of the research here described were available - no one was able to say with any certainty whether the tubes would provide relatively safe shelter or not.

Cabinet Office Serial No.	Corresponding Government War Book Measure	Action to be taken	Observations
(a)	(b)	(c)	(d)
		<u>On receipt of information from Chief of the Air Staff that an attack on this country is imminent -</u>	The Chief of the Air Staff will have made necessary dispositions to avoid loss of aircraft on the ground by enemy action. He will also have informed the Prime Minister, Secretary of the Cabinet and the Chief of Defence Staff.

The more recent research here described showed for the first time that a person sheltering in a tube would be exposed to a blast pressure only about  $\frac{1}{4}$  as great as he would be exposed to if he was above ground. (In addition, of course, he would be fully protected from fallout in the tube.)

#### Large-Scale Field Test (1/40) at Suffield, Alberta

The test is fully described in an A.W.R.E. report<sup>(6)</sup>. The decision of the Canadian Defence Research Board to explode very large amounts of high explosive provided a medium for a variety of target-response trials that was welcome at a time when nuclear tests in Australia were suspended. A.W.R.E. used the 100-ton explosion in 1961 to test, among other items, the model length of the London tube, at 1/40th scale, that had already been tested at 1/117 scale.

#### Blast Entry from Stations

There was remarkable agreement with the 1/117th scale trials: "maximum overpressure in the train tunnels was of the order of  $\frac{1}{3}$ rd the corresponding peak shock overpressure in the incident blast. The pressures in the stations were about  $\frac{1}{6}$ th those in the corresponding incident blast .....".

(6) 1/40th Scale Experiment to Assess the Effect of Nuclear Blast on the London Underground System. A.W.R.E. Report E2/62. (Official Use Only.)

The real, once Top Secret classified "War Plan UK" for the event of a sneaky "Pearl Harbor"-style surprise attack by Russia, and some of the secret research it provoked ...

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## UK Joint Intelligence Committee, 1967

ANNEX A TO COS 1929/2/11/67

## PROBABLE NUCLEAR TARGETS IN THE UNITED KINGDOM: ASSUMPTIONS FOR PLANNING

Notes: (i) Figures in brackets denote total targets in each category; (ii) (A) denotes Air Burst; (iii) (S) denotes Surface Burst

## 1. TARGETS RELATED TO ALLIED NUCLEAR STRIKE CAPABILITY (65)

## (a) CENTRES OF CONTROL ETC. (22)

## (i) Government - Central (2)

London  
CheltenhamMissile Weapon yield  
per targetAircraft Weapon yield  
per target8 x 1 MT(A)  
2 x  $\frac{1}{2}$ -1 MT(A)2 x 500 KT(A)  
2 x 500 KT(A)

## - ex-Regional (12)

Gatwick }  
York }  
Preston }  
Cambridge }  
Dover }  
Reading } former RSG sites  
Salcombe }  
Broom }  
Kidderminster }  
Ayr }  
Mitsburgh }  
Nottingham }These are  
considered to be  
possible, rather  
than probable  
targets  
See also  
) paragraph 22 x  $\frac{1}{2}$ -3 MT(S)  
" " " "2 x 1 MT(S)  
" " " "

## (ii) Military - Maritime (4)

Northwood (HQ, CINCPAC/CEC/CASTLANT)  
Plymouth (HQ, COMCENTLANT)  
Pitmead (HQ, COMNORLANT)  
Fort Southwick (HQ, C-in-C, UK Home Station)2 x  $\frac{1}{2}$ -1 MT(A)  
" " "2 x 1 MT(S)  
" " "

## - Air (3)

High Wycombe (HQ, Bomber Command)  
Ruislip (HQ, 3rd US Air Force)  
Bunting (HQ, 1 Gp. Bomber Command.)2 x  $\frac{1}{2}$ -3 MT(S)  
" " "2 x 1 MT(S)  
" " "(b) BOMBER BASES (including dispersed  
recovery and flight-refuelling bases) (32)

## (i) RAF (26)

Scampton  
Wittering  
Waddington  
Honington  
Cottesmore  
Marham  
Coningsby  
St. Mawgan  
Lossiemouth  
Macraignish  
Loosning  
Guydon  
Finningley  
Valley  
Bodford  
Broady  
Yoxilton  
Lymeham  
Wyton  
Parshore  
Boscombe Down  
Kinloss  
Maston  
Ballykelly  
Filton  
Leconfield2 x 500 KT(A)  
" " "2 x 1 MT(S)  
" " "

A - 1

UK National Archives DEFE 4/224 (cf. HO 322/785)

TOP SECRET

TOP SECRET

ANNEX A TO COS 1929/2/11/67  
(Continued)

		Missile Weapon yield per target	Aircraft Weapon yield per target
1. <u>TARGETS RELATED TO ALLIED NUCLEAR STRIKE CAPABILITY</u> (65)			
(b) <u>BOMBER BASES</u> (including dispersal recovery and flight-refuelling bases) (32) (Cont'd)			
(ii) USAF (6)	Alconbury Bentwaters Woodbridge Wethersfield Lakenheath Upper Heyford	2 x 500 KT(A) " " " " " "	2 x 1 MT(S) " " " " " "
(c) <u>BASES INC. FOR SEABORNE NUCLEAR STRIKE FORCES</u> (12)			
(i) Bases (5)	Gareloch (Clyde) Holy Loch Rosyth (SSBN Refitting Base)	2 x 500 KT(A) " " " "	2 x 1 MT(S) " " " "
	Portsmouth Devonport	1 x $\frac{1}{2}$ -1 MT(A) " " " "	2 x 1 MT(S) " " " "
(ii) Communication Installations (7)	VLF (Rugby Cricklade (Anthon (NATO)) LF (Inskip HMS Waltham (Londonderry ) US Navy Thurso	1 x 500 KT(A) " " " "	2 x 500 KT(A) " " " "
2. <u>MAJOR CITIES</u> (20)			
	Glasgow Birmingham Liverpool Cardiff Manchester Southampton Leeds Newcastle Bristol Sheffield Sunderland Hull Middlesbrough Coventry Wolverhampton Leicester Stoke-on-Trent Belfast Edinburgh Nottingham	4 x 1 MT(A) " " " " " " 2 x 1 MT(A) " " " " " " " " " " " "	2 x 500 KT(A) " " " " " " " " " "

A - 2

Professor Peter Hennessy published some **declassified potential Russian target lists** in *The Secret State* (2002, revised 2003 and 2010). Crown Copyright Reserved.

# Ashton spells it out on Ukraine

by Our Russian Staff  
**Vladimir Putthebutin**

The EU's foreign policy supremo, Baroness Ashton, last night dramatically intervened in the Ukrainian crisis by warning the Ukrainians (Surely Russians? Ed. No. VP.) that their one hope of a secure and prosperous future was to live up to the standards and principles of the EU.

"What you will have to do," she told the Ukrainian people, "is to create a truly democratic system which is free from corruption and is based on sound finances."

The Chancellor argued that it was Britain's duty to give billions of pounds to help the Ukrainians rebuild their shattered economy.

When asked where he was going to find the money to bail out Ukraine, Mr Osborne explained, "It is quite simple. We shall borrow

## PRIVATE EYE, 7 MAR '14 PUTIN REVEALS PLANS TO COMMEMORATE START OF WW1

by Our History Staff **R.A.S Putin**

The President of Russia, Mr Vladimir Putin, today announced his official plans for marking the hundredth anniversary of the First World War.

He said, "I thought the best way to remember all the lives lost and all the sacrifices made in 1914 would be to start another World War." He continued, "I shall start small,

# BBC apologises over Harman scandal

CREDIT: PRIVATE EYE, 7 MAR. 2014

Said a spokesman, "We naturally ignored this story for several days on the grounds that it was in the Daily Mail and not the Guardian."

# Harriet Harman – 'I'm really sorry'

by Our World Exclusive Staff  
**Peter File**

The deputy leader of the Labour Party last night issued a statement

"I'm really sorry that just because it was my job to advise on what was legal, people think I should have advised my colleagues that having sex with children was somehow against the law.

Private Eye, 7 March 2014. No joking, this could turn out to be a real crisis.

"The megalomaniacs of Brussels despise national independence and democracy. ... At the entrance to EU Parliament's visitors' centre there's a slogan: "National sovereignty is the root cause of the most crying evils of our times. The only final remedy for this supreme and catastrophic evil is the federal union of the peoples." " - Leo McKinstry.



Above: arresting the culprit. Nobody sane in London on 28 June 1914 believed that the Assassination of Archduke Ferdinand would spark WWI in early August. As the author of *On Thermonuclear War*, Herman Kahn told Professor Freeman Dyson (quoted in Dyson's 1984 book *Weapons and Hope*): "you had to be paranoid in 1941 to believe the Japanese would attack Pearl Harbor", despite the fact that in 1940, President Roosevelt imposed sanctions against Japan to prevent it getting oil, when Japan invaded Vietnam/Indochina.



Above: the British media was the stage for a war of terror between nuclear weapons effects exaggerating CND and Prime Minister Maggie Thatcher's pro-civil defence, pro-deterrence, anti-intimidation elected government. At the 1983 General Election, CND went so far as to try to get voters to elect Neil Kinnock's Labour Party due to its declared unilateral nuclear disarmament policy, which would have removed Britain from its 'unsinkable aircraft carrier' role for American nuclear weapons in the effort to deter a Soviet invasion of Western Europe! CND did this by exaggerating the effects of nuclear weapons as well as downplaying the horrendous suffering that living under communist dictatorship would entail and also downplaying the incredible effectiveness of simple civil defense countermeasures against thermal radiation, blast and fallout radiation! Despite all her widely-attacked and tragic failings on domestic policy, Thatcher stood up for freedom effectively in foreign policy: unlike most scientifically inept politicians, she was a former research chemist, who - despite her widely perceived domestic policy failings as a right-wing woman - backed the morality of civil defence and on foreign policy issues stood up to terrorist state dictator Leonid Brezhnev, echoing Clayton's pragmatic outlook on war in her address to the United Nations General Assembly on disarmament on 23 June 1982, when she pointed out that in the years since the nuclear attacks on Hiroshima and Nagasaki, 10 million people were killed by 140 non-nuclear conflicts, so:

'The fundamental risk to peace is not the existence of weapons of particular types. It is the disposition on the part of some states to impose change on others by resorting to force against other nations ... Aggressors do not start wars because an adversary has built up his own strength. They start wars because they believe they can gain more by going to war than by remaining at peace.'

Charles J. Hitch and Roland B. McKean of the RAND Corporation in their 1960 book *The Economics of Defence in the Nuclear Age*, Harvard University Press, Massachusetts, p. 310, stated:

'With each side possessing only a small striking force, a small amount of cheating would give one side dominance over the other, and the incentive to cheat and prepare a preventative attack would be strong... With each side possessing, say, several thousand missiles, a vast amount of cheating would be necessary to give one side the ability to wipe out the other's striking capability.'

For example, America used two nuclear weapons against Japan in desperation to stop World War II fighting when it had no nuclear stockpile at all, *but resisted from using nuclear weapons at all when it had a massive stockpile of nuclear weapons, even when it had superiority over the Soviet Union until the 1960s*. At the end of *The Economics of Defence in the Nuclear Age*, p. 357, the authors stress: 'the more extensive a disarmament agreement is, the smaller the force that a violator would have to hide in order to achieve complete domination. Most obviously, "the abolition of the weapons necessary in a general or 'unlimited' war" would offer the most insuperable obstacles to an inspection plan, since the violator could gain an overwhelming advantage from the concealment of even a few weapons.'

Thus, reducing the scale of nuclear deterrence may not result in increased security. This fact is not opinion, and it doesn't matter if it opposes 'consensus thinking' or 'groupthink'. Such a fact is not a pro-nuclear bias, or propaganda, but is countering lying propaganda. We have to work with natural facts in the real world, regardless of whether popular ideologies and utopias are contrary to them.

Following the 1991 Soviet Union collapse, in 1994 the Ukraine was disarmed of its own nuclear deterrent in exchange for a guarantee called the "Budapest Memorandum", which was signed by Russia as well as the U.S. President Bill Clinton and British Prime Minister John Major. Article 4 in this Memorandum promised to uphold the territorial integrity of Ukraine (which has included Crimea since 1954), in return for Ukraine giving up its nuclear weapons. Similarly, Britain had guaranteed the security of Poland on March 31, 1939, precipitating WWII after Hitler invaded Poland on September 1, 1939, and likewise in 1839 Britain had guaranteed the neutrality of Belgium by the Treaty of London, leading to WWI after Germany invaded Belgium in 1914. Now, the Ukraine is reminding us of our 1994 Budapest Memorandum (*one day in the distant future, maybe politicians will grow up, stop appeasing disarmament lobbies, and allow countries to keep their own nuclear deterrent to deter aggression against themselves, instead of this system of maximizing the escalation potential, inviting aggressive conflicts and war in the name of "peacemaking"*).

**Britain's last hot war against Russia was the Crimean War, 1853-6.** Russia was eventually defeated by an alliance of Britain, France, Sardinia and Turkey (Ottoman Empire). Britain's Crimean War against Russia broke out after gradual escalation stemming from Russian Tsar Nicholas I invasion of Moldavia on 2 July 1853, which initially seemed to be a *trifling escalation of a clash between Russia and France's President Napoleon over the control of Palestine in the Middle East*. But then Turkey declared war on Russia on 5 October 1853, and on 4 November, *Russian ships from its naval base at Sevastopol in the Crimea annihilated Turkey's fleet at Sinope, its Black Sea base*, the event that forced Britain and France to finally declare war on Russia in March 1854. They were *fighting to destroy Russia's Crimean naval base at Sevastopol*, which proved harder than expected: Crimea was secured in February 1856, after two years of brutal fighting and a cholera epidemic, with the loss of 25,000 British, 100,000 French and 1,000,000 Russian lives.

British Prime Minister Aberdeen had to resign from his coalition government, Russian Tsar Nicholas I died from pneumonia due to a chill during the conflict, and the Russian debt from the war was so great that his son, Tsar Alexander II, sold the Russian territory of Alaska to America. *The poverty of Russia due to war debt made it a target for Marxist-communist revolutionaries like Lenin, while the decline of Russian political influence permitted the Prussian German Empire to unite and arm itself to start WWI.*

## Lord Malmesbury, 1852 (British Foreign secretary):

***We should deeply regret any dispute that might lead to conflict between two of the great Powers of Europe ... the thought of such a spectacle is melancholy indeed.***

Despite some changed map boundaries, country names, political ideology, oil and gas reserves, and technology, people don't evolve in 160 years. *Key underlying disputes between East and West remain, like the military and religious flashpoints, e.g. Crimea and Palestine in the Middle East, and the financial, human and political costs of invasions:*

# Ukraine: The Budapest Memorandum of 1994

*The following is the text of the Memorandum on Security Assurances, known as the Budapest Memorandum, in connection with Ukraine's accession to the Treaty on the Non-Proliferation of Nuclear Weapons, signed Dec. 5, 1994.*

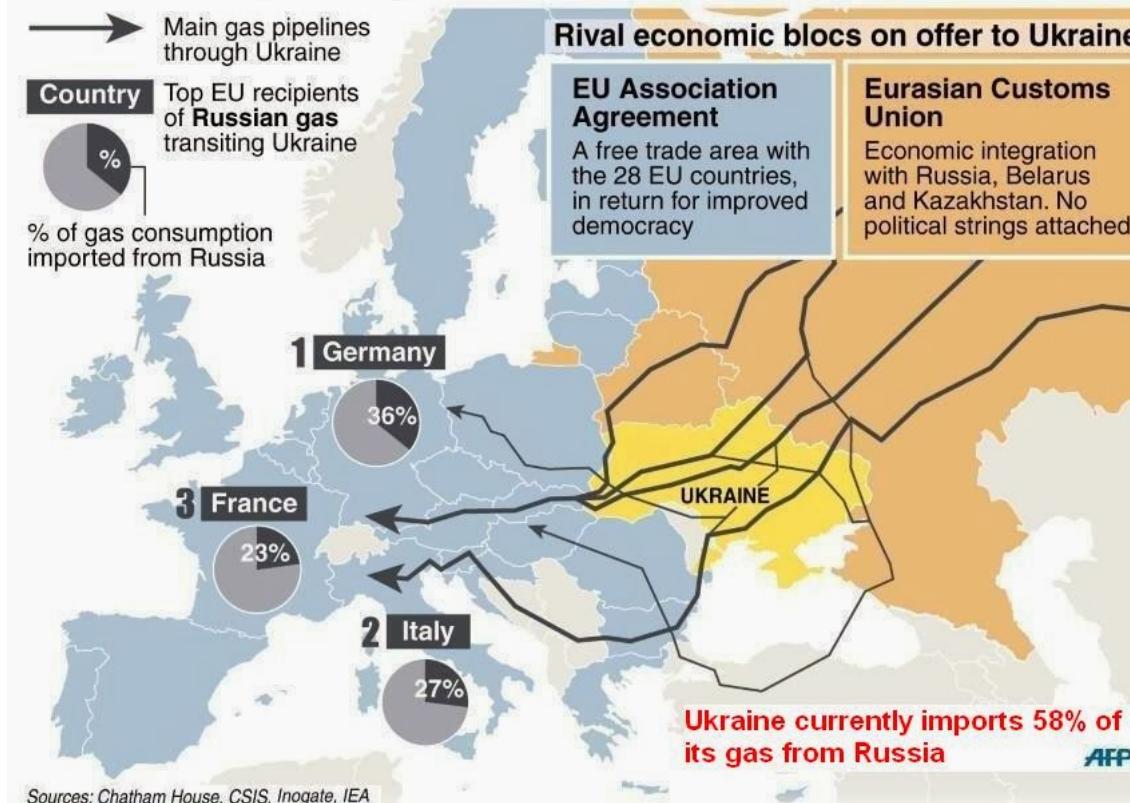
1. The United States of America, the Russian Federation, and the United Kingdom of Great Britain and Northern Ireland, reaffirm their commitment to Ukraine, in accordance with the principles of the CSCE [Commission on Security and Cooperation in Europe] Final Act, to respect the Independence and Sovereignty and the existing borders of Ukraine.

4. The United States of America, the Russian Federation, and the United Kingdom of Great Britain and Northern Ireland, reaffirm their commitment to seek immediate United Nations Security Council action to provide assistance to Ukraine, as a non-nuclear-weapon State Party to the Treaty on the Non-Proliferation of Nuclear Weapons, if Ukraine should become a victim of an act of aggression or an object of a threat of aggression in which nuclear weapons are used.

**(A similar "peace" agreement between U.K. and Belgium led to WWI, and the agreement between U.K. and Poland sparked WWII!)**

## 66% of RUSSIAN GAS EXPORTS TO THE EUROPEAN UNION GO THROUGH UKRAINE

CREDIT: <http://www.businessinsider.com/heres-one-economic-reason-russias-invasion-of-crimea-pulls-in-europe-2014-3>





Thousands of activists march in a pro-invasion rally in Moscow one day after Russia's parliament approved the use of military force in Ukraine. Photo: Sasha Mordovets/Getty Images

By Liam Halligan 12:05AM GMT 04 Mar 2014

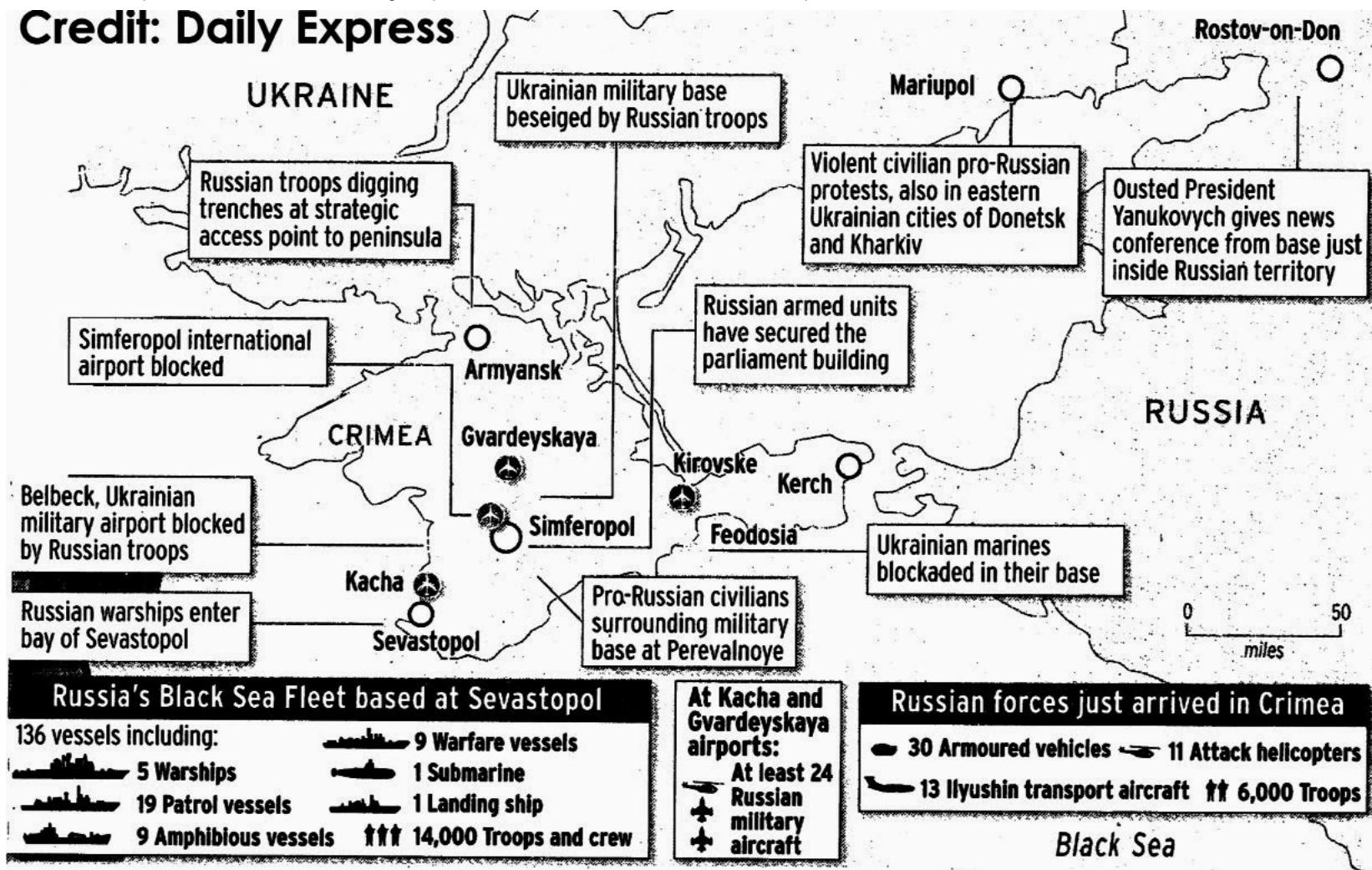
"There will be significant costs and consequences" following Russia's intervention in Crimea. So said William Hague, the foreign secretary, on Monday. But what can the West actually do to challenge **Vladimir Putin's** Russia? How far are we prepared to go to determine the future of a small, sun-kissed territory that juts out from southern Ukraine?

# The Telegraph



Der 2. August 1914 auf dem Odeonsplatz in München (oben mitten in der begeisterten Menge Adolf Hitler)

## Credit: Daily Express





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### Ukraine crisis: 'Russians occupy' Crimea airports

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Ukraine's interior minister accused Russian forces of an "armed invasion" at an airport in Crimea, as tensions escalate. It seems that most Ukrainians fear annexation of their country by Russia.

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LATEST: Ukraine's ex-President Yanukovych makes first public appearance since being ousted, says he will

## Ukrainian ex-leader vows fightback



Ukraine's ex-President Yanukovych makes his first appearance since being ousted, telling a news conference in Russia he would "fight for my country".

**LIVE** Yanukovych news conference

- ▶ Sevastopol airport cut off
- ▶ Armed men in Simferopol airport

What is so dangerous about Crimea?  
Crimea crisis: BBC on the ground

Reporters: Kerry Alexandra, Jasmine Coleman, Patrick Jackson and Yaroslav Lukov

14:02: Mr Yanukovych says he is surprised the Russian president has still to react. "Knowing the character of Vladimir Putin, I am astonished that he is still keeping quiet with such restraint."

13:58: "I never gave orders for the police to shoot," Mr Yanukovych says. But police have the right to self-defence, he adds.

13:57: Just a reminder if you are joining us, that Viktor Yanukovych, the deposed president of Ukraine, is giving his first news conference since fleeing to Russia. Speaking in Russian in Rostov-on-Don, he said gangsters had seized power in Kiev and that he wanted to see his country remain united, amid fears of separatism in the Crimea region.



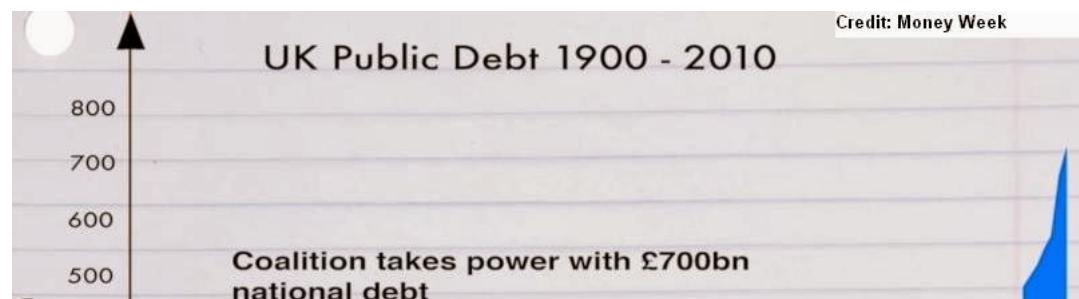
Today the port of Sevastopol is home to the Kremlin's Black Sea Fleet.

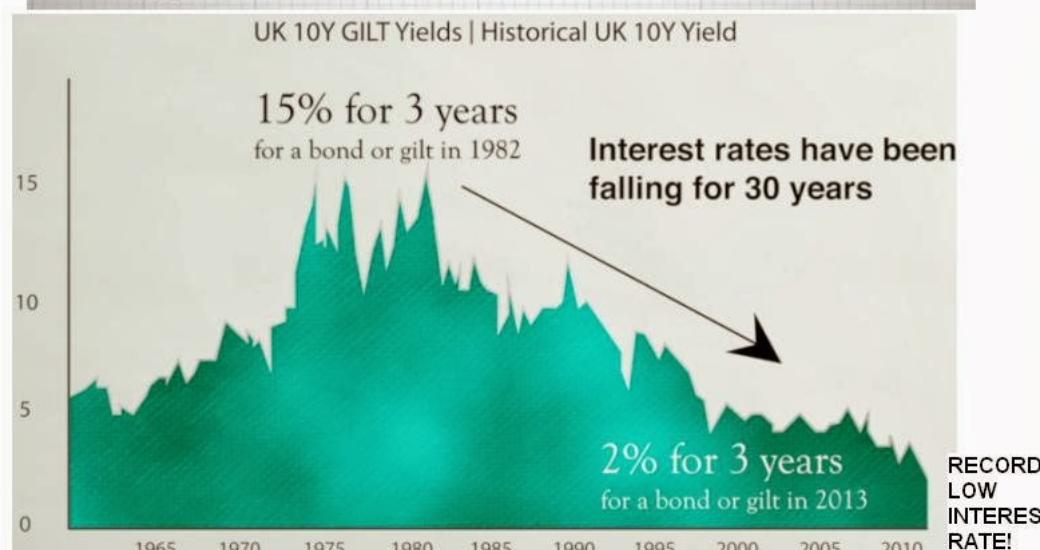
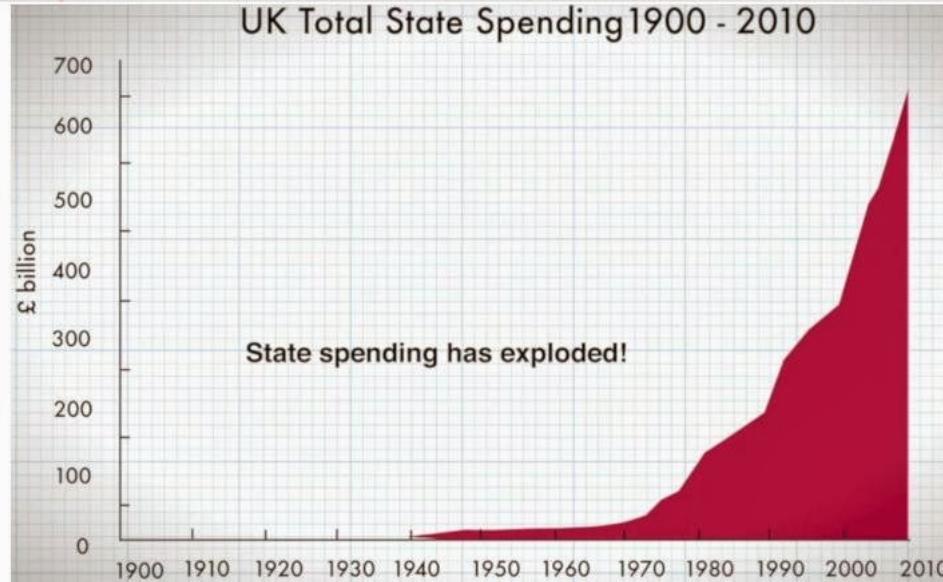
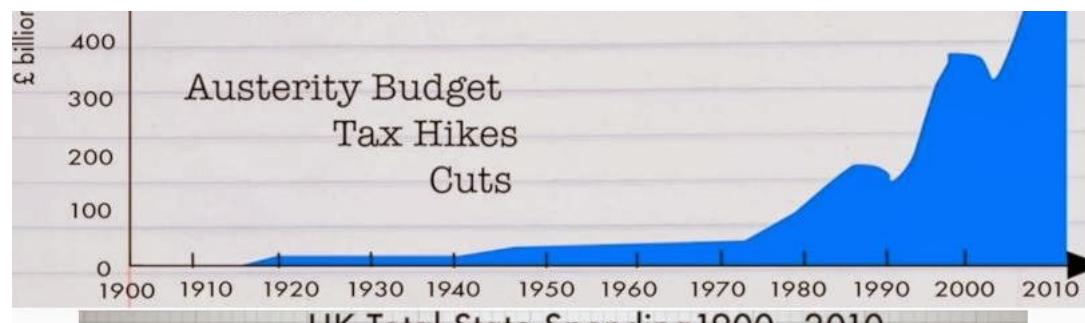
Recorded earlier



The *legitimately-elected yet "undemocratically" deposed* Ukrainian President Viktor Yanukovych, now residing in Moscow, gives Russian President Vladimir Putin the perfect excuse for his military invasion of Ukraine. The problem here is really Iraq and Afghanistan, which have helped push the U.K. to well over £1 trillion in National Debt, not to mention personal and bank debt which is another housing bubble (the threat of negative equity on homes and assets once Britain defaults on interest payments due to rising interest rates, resulting in bank failures that the government must either bail out at public "expense"/debt, or else classic financial ruin, either *a la* Greece, or else *a la* Weimar Republic).

We're currently only having to pay 2% interest (historically rock bottom rates), but we're still running a deficit (the debt is still growing bigger), not a surplus (see graphs below). This means we can't afford to even *think* about talking of another Crimean War (in the first one, Alfred Nobel made his prize-fortune by considerably supplying dynamite to both sides). **In the first Crimean War (1853-6) Russia lost to an alliance of France, Britain, the Ottoman Empire, and Sardinia.** But Russia won't lose this time: we simply can't afford to fight for the liberty of the Ukraine. If interest rates go up due to economic uncertainty caused by such a war, we'd go bankrupt as is proved by the *Money Week* magazine graphs below.





## **GREEK GOVERNMENT COULD BORROW AT JUST 1% INTEREST AT END 2009 — COLLAPSED WHEN INTEREST RATES ROSE DUE TO ECONOMIC CRISIS!**

**IF A MAJOR CONFLICT CAUSES INTEREST RATES TO RISE TO 5%, BRITAIN CANNOT PAY INTEREST:  
— WILL DEFAULT LIKE 1923 WEIMAR REPUBLIC (GERMANY'S 1923 DEBT WAS 913% OF ITS GDP,  
WHICH IS SIMILAR TO BRITAIN'S TOTAL NATIONAL PLUS PERSONAL DEBT BOMB TODAY)**

The U.K. Government on both sides of Parliament falsely and sneakily conflates "deficit" with "debt", to make it appear that the horrendous cutbacks needed to reduce the deficit - *the rate of increase of debt* - are somehow *cutting the debt itself*. Wrong: the debt is still growing bigger - we're still headed out to sea into the storm, and we're not even turning around for a return to shore! Some estimates of the total U.K. debt (which is not an exact science, since you have to allow for depreciation of supposed "assets" into "negative equity" or "debt" when the economy goes completely bust and the gas hisses out of the inflated housing bubble) are that it is now worse than the 913% of GDP that the Weimar Republic had when it collapsed, sowing the seed of WWII.

Cutting the deficit is like reducing the throttle a bit, while still going in the wrong direction. *The only way to reduce the debt is to have a surplus. To get rid of the debt means having a surplus for many years into the future*. We don't even have a surplus! We've *still got a deficit*, so the national debt bomb is still growing, **but the opposition watermelon parties use smokescreens to cover it up instead of pressurising the government to start reducing the debt mountain. But the fact is, debt interest default will wipe out Britain's credit rating, causing further interest rate rises in a period of international tension, escalating the problems.**

The West half of the Ukraine (which borders Europe) is pro-European Union and wants Ukraine to join the European Union. However, the Eastern side of the Ukraine speaks Russian and tends to be Leninist and to feel some empathy with Putin's Russia. Will Russia's President Putin simply "put up" with the deposition of the pro-Putin elected Ukraine president, or will Putin instead decide to take a hand and "offer assistance" to Ukraine? Historically, all of Hitler's invasions in the mid to late 1930s were "excused" on the basis that Hitler was simply "protecting" the pro-Hitler, German-speaking, minorities. For example, when Hitler "invaded" the Sudetenland of Czechoslovakia in September 1938, Hitler's excuse was that he was "providing humanitarian assistance" to nearly four million Germans who were living in the Sudetenland region of Czechoslovakia.

My point is that Hitler *always* had the "plausible lie"-type excuse that he was merely providing soldiers to act as "peacekeepers" or policemen, to "protect" German minorities in the countries he invaded. Because there are some Germans in a minority in every country, this excuse could be applied also to every country in the world. Propaganda it was, but it helped to "justify" the "peaceful" spread of the Third Reich. Hitler's glib excuse for the German annexation of Austria, Czechoslovakia, Poland, France, etc.: Jackboots were merely being used to "protect German Nationals in bigoted, anti-Nazi countries". (Those who were pacifist/fascist chose to believe Hitler because they wanted to; they had seen falsified pacifist 1930s claims that war would exterminate all the cities with gas, explosives, and incendiaries the moment war started.) This "peaceful invasion" situation, is mirrored by the Russian situation with regard to the Crimean region of the Ukraine today, "justified" by the **fact Russia's Navy has a controversial base at Sevastopol (familiar from the 1853-6 war!) in the Crimea for its Black Sea Fleet (click here for details of the serious Ukrainian controversy over this base)**.

IF Russian President Putin decides to authorize the Russian Army to "provide further assistance" to the pro-Putin, pro-Russian, Russian speaking Ukrainians in the Eastern part of the Ukraine, perhaps adding the extra excuse that the present corrupt Ukrainian President was "democratically elected" and has been "unlawfully dismissed" by the Ukrainian Parliament as a result of a few undemocratic protests in Kiev, while the European Union and America support the pro-European Union Ukrainians in the West of the Ukraine, then the civil war will be beyond Western intervention, because of the debt bomb for the West.

First, an invasion by Russia will cause a really severe civil war in Ukraine. America's Obama and the European Union will then have to either climb down and lose face to Putin, or else we will end up with Ukraine becoming another Vietnam in which both sides (Russia and the West) provide war materiel, protracting and deepening the war. The end result could well be a complete degeneration of West-Russian relations and another very icy Cold War. But instead of Russian dictatorship being deterred effectively as in the past, the crippling national debts of the U.K. and U.S.A. will make them incredible, so their impotence will end up - like Chamberlain at Munich in September 1938 - encouraging aggression and further invasions. Second, with nuclear disarmament today proceeding like 1930s British disarmament, and for the exactly same financial and war-effects-exaggerating reasons as 1930s British disarmament, will we all be conscripted to fight WWIII, without any politically incorrect neutron bombs or other effective tank deterrents?

**100 ton TNT test on 1000 ft section of London Underground tube at Suffield, Alberta, 3 Aug 1961**

Atomic Weapons Research Establishment, "1/40th Scale Experiment to Assess the Effect of Nuclear Blast on the London Underground System", Report AWRE-E2/62, 1962, Figure 30. (National Archives ES 3/57.)

<b>200 FT FROM GROUND ZERO</b>	<b>400 FT FROM GROUND ZERO</b>
<b>100 PSI OUTSIDE</b>	<b>20 PSI OUTSIDE</b>
<b>30 PSI IN TUBES</b>	<b>7.2 PSI IN TUBES</b>
<b>15 PSI IN TUBE STATIONS</b>	<b>4.3 PSI IN TUBE STATIONS</b>



**Aldwych Underground tube station as Blitz shelter, 8 October 1940**



***Tunnel shelters in hillside, very close to ground zero in Nagasaki, protected the occupants from blast, thermal radiation, and immediate nuclear radiation.***

**Update:** a few quotations from the bestselling author of *The Fourth Protocol* about clandestine nuclear attack, Frederick Forsyth, from his [28 February 2014 Daily Express \(page 13\) newspaper article on the Ukrainian crisis](#):

**Corruption is rampant all over the world**

**AS we gaze out from our island there is precious little to bring us the comfort of optimism. ... every time a rioter was interviewed out came the same complaint: every holder of public office was massively corrupt. There were various complaints against the regime of now-toppled Mr Yanukovych but that was the most constant one.**

Before the final torching of Kiev we watched the building of the Sochi Olympic facilities for \$51billion, half of them embezzled into private pockets.

Did this upset the strange little narcissist of Moscow, muscle-flexing Vladimir Putin? Not a bit of it. And why should it? He knows the rules. His whole regime practises institutionalised corruption. In short the entire landmass that was once the communist world now runs on corruption.

The only surprise to us in the West is to learn belatedly that it always did. And the Third World (that was)? Central and South America, from the cocaine-fuelled Mexican-US border down to Patagonia, the same. Ditto Africa from the Mediterranean to Cape Town. And the rest of Asia? No change.

So what does that leave? In what countries can the taxpaying, law-abiding citizen confidently expect financial integrity in the public sector from Downing Street to the postman or the train station ticket office?

Well it's a pretty small percentage of the world's surface population. The six nations of the Anglo sphere: Australia, New Zealand, Ireland, UK, Canada and the USA. Plus the five countries of Scandinavia.

But surely I must include the entirety of the European Union? Would that I could. Greece and Cyprus have been brought low economically by wholesale thievery from on high and even the EU's own Court of Auditors refuses year on year to sign off the accounts as a true and honest record. Too many unexplained disappearances.

I have spoken to many people from faraway countries who, if they have expressed any admiration for Old Blighty and been asked why, respond: "It's the honesty. Where I come from every judge and official is purchasable. If you have the money to bribe them you will always win your case. But the poor man is dead in the water..."

That could explain the constant insurrections against regimes both venal and cruel: Iraq, Syria, Afghanistan, another dozen as of now and spreading.

Forgive me for saying it again but modern technology plasters our sitting rooms via the laptop or the TV with horrible images day and night. And of course the reaction from compassionate people is: "Something must be done."

But we just do not have the resources to play gendarme to the world. All we can do is retain our brilliant special forces and the technology to send them on rapier-fast in-and-out missions of rescue.

But no more invasions and occupations. No more nationbuilding. For the ex-communists and Third Worlds the dream of democracy, prosperity, integrity is a 100-year mission – if at all.



**Above:** Poor old ex-KGB officer President Putin's hard-line corruption may be due to the fact that, apart from sharing the same Christian name as Lenin, Wikipedia shows his brainwashing by the corrupt USSR:

"Putin joined the [KGB](#) in 1975 upon graduation, and underwent a year's training at the 401st KGB school in Okhta, Leningrad. He then went on to work briefly in the Second Chief Directorate ([counter-intelligence](#)) before he was transferred to the [First Chief Directorate](#), where among his duties was the monitoring of foreigners and consular officials in Leningrad.<sup>[28][29]</sup> From 1985 to 1990, the KGB stationed Putin in [Dresden, East Germany](#).<sup>[30]</sup> Following the [collapse of the communist East German government](#), Putin was recalled to the Soviet Union and returned to Leningrad, where in June 1991 he assumed a position with the International Affairs section of [Leningrad State University](#), reporting to Vice-Rector [Yuriy Molchanov](#).<sup>[29]</sup> In his new position, Putin maintained surveillance on the student body and kept an eye out for recruits. It was during his stint at the university that Putin grew reacquainted with his former professor [Anatoly Sobchak](#), then mayor of Leningrad.<sup>[31]</sup> Putin finally resigned from the active state security services with the rank of [lieutenant colonel](#) on 20 August 1991 (with some attempts to resign made earlier),<sup>[31]</sup> on the second day of the [KGB-supported abortive putsch](#) against Soviet President [Mikhail Gorbachev](#).<sup>[32]</sup> Putin later explained his decision: "As soon as the coup began, I immediately decided which side I was on", though he also noted that the choice was hard because he had spent the best part of his life with "the organs".<sup>[33]</sup>"

We really don't want to make personal comments about President Putin, just in case our names goes on a hit list, and he decides to invade the UK, then perform his great KGB magic trick of making all the people on his list suddenly disappear without fair trial into Siberian salt mines (or maybe mass graves if he decides to lower his salt intake to improve his fitness). *By the way, we do have some positive things to write about Putin the Great: he rides well, is great at judo, and swims the butterfly stroke nearly as well as me.*

Tribute video of President Putin the Great, engaged in one of the many fine things he does best (which include huge state spending sprees for prestige, giving contracts worth billions to dedicated friends):

Update: [James Delingpole points out the funny side of this crisis from our \(UK\) financially bad situation for a war, in a 3 March 2014 article](#):

**Why are some people so hot for war with Russia? I don't just mean the neocons and the semi-retired cold warriors still half expecting the squadrons of T54s ...**

... Should it merely involve the conscription of every man between 18 and 30 and the immediate doubling of our defence budget? Or are we to go on a proper, Germany-in-late-'44 Götterdämmerung footing and ready the granddads with their pitchforks and prepare the school kids to man the anti-aircraft batteries? ... does that mean I get to fly a Harrier Jump Jet. Because if I do, I must tell you, it will fulfil a long-standing childhood fantasy of mine. Growing up in the Eighties, when General Sir John Hackett had that enormous, bestselling success with his what-if future history *The Third World War*, a major conflagration with the Soviet Union - possibly ending with the destruction of the whole world - was something all of us British schoolkids half feared ... American schoolchildren of the era, we know, felt just the same way. The tagline of 1984's *Red Dawn* was: "In our time no foreign army has ever occupied American soil. Until now." ...

On Breitbart Radio last night, the admirable Frank Gaffney - a former defence adviser to the man who did more than anyone to bring about the end of the Cold War, Ronald Reagan - was ramping up the rhetoric about global conflagration. ... In the US President Obama has been castigated - not unreasonably, it must be said - for making empty threats. (If you're going to make threats, be prepared to carry them through - or don't make them in the first place). ... It is a quarrel in a far-away country between people ...

Here James Delingpole is parodying Prime Minister Chamberlain's September 27, 1938, radio speech to the nation of Britain, dismissing Hitler's aggression as a storm in a teacup:

"... a quarrel in a far-away country between people of whom we know nothing. It seems still more impossible that a quarrel which has already been settled in principle should be the subject of war. I can well understand the reasons why the Czech Government have felt unable to accept the terms which have been put before them in the German memorandum. Yet I believe after my talks with Herr Hitler that, if only time were allowed, it ought to be possible for the arrangements for transferring the territory that the Czech Government has agreed to give to Germany to be settled by agreement under conditions which would assure fair treatment to the population concerned. ... However much we may sympathize with a small nation confronted by a big and powerful neighbor, we cannot in all circumstances undertake to involve the whole British Empire in war simply on her account. If we have to fight it must be on larger issues than that. I am myself a man of peace to the depths of my soul. Armed conflict between nations is a nightmare to me; but if I were convinced that any nation had made up its mind to dominate the world by fear of its force, I should feel that it must be resisted. Under such a domination life for people who believe in liberty would not be worth living; but war is a

fearful thing, and we must be very clear, before we embark upon it, that it is really the great issues that are at stake, and that the call to risk everything in their defense, when all the consequences are weighed, is irresistible. For the present I ask you to await as calmly as you can the events of the next few days. As long as war has not begun, there is always hope that it may be prevented, and you know that I am going to work for peace to the last moment. Good night."

Chamberlain's 1930s dogmatic policy of "speak softly and carry a big stick" was disproved by its failure in both 1914 (Britain's Foreign Secretary Edward Grey) and 1939 (Chamberlain):

In 1914, Britain's Foreign Secretary Edward Grey made precisely the **SAME** "hesitancy" error with the Kaiser that Chamberlain - "acting as his own Foreign Secretary" (Chamberlain's own words) - made in the late 1930s! Grey had the worst of all worlds by following the infamous **26 January 1900 "speak softly and carry a big stick" advice of President Ted Roosevelt**.

*British Foreign Secretary Edward Grey, following Ted, refused to clearly threaten war against Germany if Germany invaded Belgium until it was **too late for all the mobilization and preparation in Germany to be stopped!***

**Grey, more interested in fly fishing than foreign affairs, was so obsessed until 1 August 1914 with trying to reach agreement with Germany for British neutrality in exchange for a German promise to avoid the invasion of France, that he failed to tell Germany clearly that Britain would go to war against Germany, if Germany invaded Belgium, until it was too late to prevent German mobilization. The rest of the Cabinet failed to intervene with Grey's disastrously weak negotiations, since they were too busy preparing for war (churchill) or dealing with domestic affairs (literally "affairs" in the case of August 1914 Liberal Prime Minister Herbert Asquith who had 7 kids but was spending Cabinet meetings writing up to 4 love letters to his mistress, Venetia Stanley, according to research by historian Bobbie Neate, the stepdaughter of Asquith's secret love child who has a blog linked here):**

## **Stumbling into disaster: Britain's 1914 Cabinet**





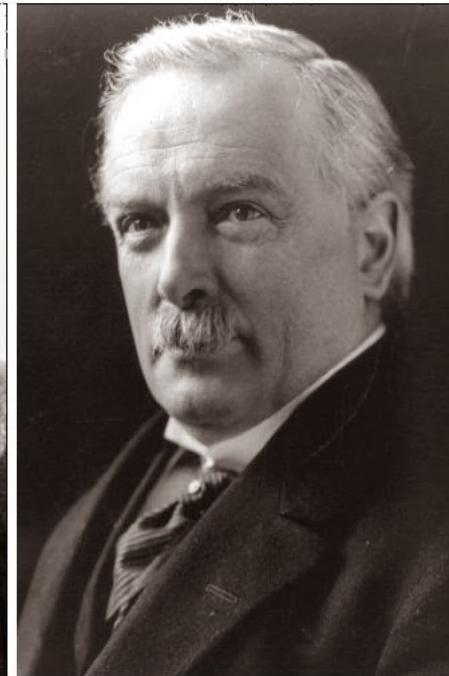
Liberal Prime Minister Herbert Asquith (married with 7 kids) was too busy writing FOUR love letters per Cabinet meeting to mistress Venetia Stanley, to pay attention to Britain's slide to war under Grey.



Fly-fishing Foreign Secretary Edward Grey was up to 1 August appeasing Germany into sparing France in exchange for UK neutrality, instead of warning we'd fight!



First Lord of the Admiralty Churchill was planning too busy preparing for war to check on Grey!



Chancellor of the Exchequer David Lloyd George: too busy with domestic affairs!

In total Britain's August 1914 Prime Minister Herbert Asquith wrote 560 love letters to his mistress Venetia Stanley, while never writing to his three sons serving in France: "Often he would sit in Cabinet writing love letters while vital discussions raged around him. .... The public, of course, had no inkling. .... During the war, the press was strictly censored."

Historian A. J. P. Taylor (a CND star founder) ignored all this, misrepresenting the origin of WWI as just an "arms race", to help achieve unilateral nuclear disarmament with his 1969 *War by Timetable* book, see also pages [here](#) and [here](#) (Taylor's arms race theory of WWI, basically just a repeat of Edward Grey's old 1914 lying excuse for blundering into disaster, was very popular with the Vietnam era anti-nuclear, pro-love CND peaceniks).

Lord Grey in 1914 failed to make it clear to Germany in good time that Britain would go to war if Germany invaded Belgium, because Grey was too obsessed with "diplomacy" (even proposing to Germany on 1 August 1914 that Britain would stay neutral, if only Germany left France alone):

"When he [Lord Grey] finally did make such communication, German forces were already massed at the Belgian border, and Helmuth von Moltke convinced Kaiser Wilhelm II it was too late to change the plan of attack." -

[https://en.wikipedia.org/wiki/Edward\\_Grey,\\_1st\\_Viscount\\_Grey\\_of\\_Fallodon#July\\_Crisis](https://en.wikipedia.org/wiki/Edward_Grey,_1st_Viscount_Grey_of_Fallodon#July_Crisis)

(See also Prime Minister David Lloyd George's attack on Grey's incompetence and weakness, in his "War Memoirs".)

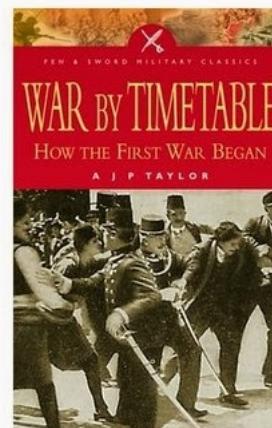
The German Navy during the Kaiser's War Cabinet on 8 December 1912 set a date for war 18 months in the future, as reported in the Diary of Admiral Muller:

"General von Moltke [German army chief] said: I believe war is unavoidable; war the sooner the better. But we ought to do more to press to prepare the popularity of a war against Russia. The Kaiser supported this. Tirpitz [German Navy chief] said that the navy would prefer to see the postponement of the great fight for one and a half years."

“These conflicts often threatened to bring the alliances into play. For example, if Russia attacked Austria-Hungary as the result of a quarrel over Bulgaria, would Germany be obliged to aid Austria-Hungary, as she had undertaken to do in the Austro-German alliance? Or if Germany attacked France as the result of a quarrel over Morocco, would Russia have to fulfil her promise under the Franco Russian alliance? On the whole, the various powers rejected such consequences. An attack which brought the conditions of the alliance into play would really have to be 'unprovoked aggression', in the later 20th-century phrase. Thus Bismarck steadfastly refused to promise support for Austria-Hungary in the Bulgarian troubles during the 1880s. If she wanted to oppose Russia, he said, she must find other allies- Great Britain and Italy. Later, Russia refused to support France in the two Moroccan crises of 1905 and 1911. France refused to support Russia in the Bosnian crisis of 1908. ”

“These inexperienced strategists all held firmly to the dogma that their plans were immutable to the last detail and that improvisation of any kind was impossible. With each elaboration, they became still more the prisoners of their own time-tables. Mobilisation appeared to them a once-for-all operation. It had to be performed in a particular way and would then determine the entire shape of the war which followed.”

- A. J. P. Taylor, *War by Timetable*, 1969



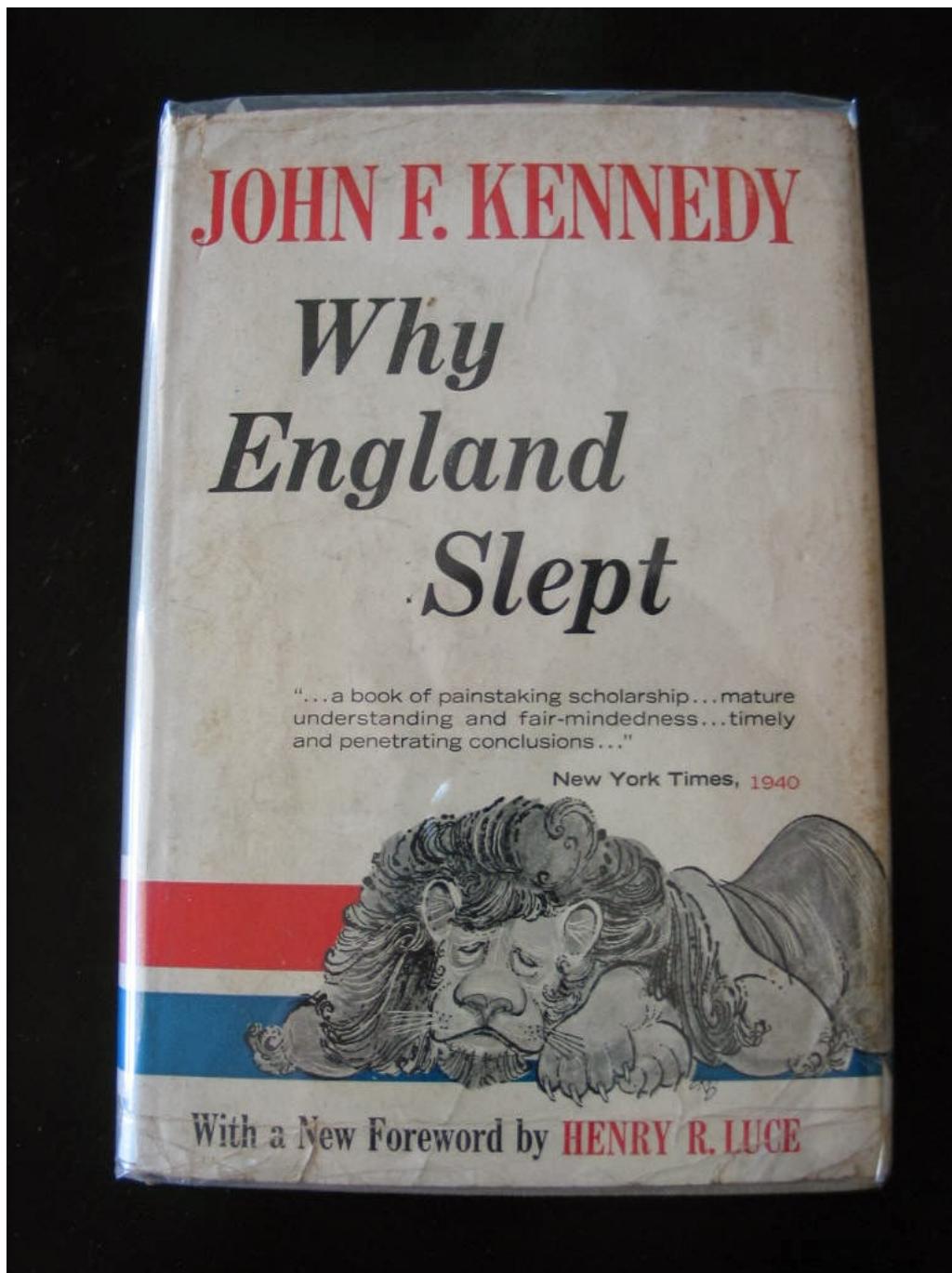
“The nations slithered over the brink into the boiling cauldron of war without any trace of apprehension or dismay... The nations backed their machines over the precipice ... not one of them wanted war; certainly not on this scale.” - David Lloyd George, *War Memoirs*, 1934

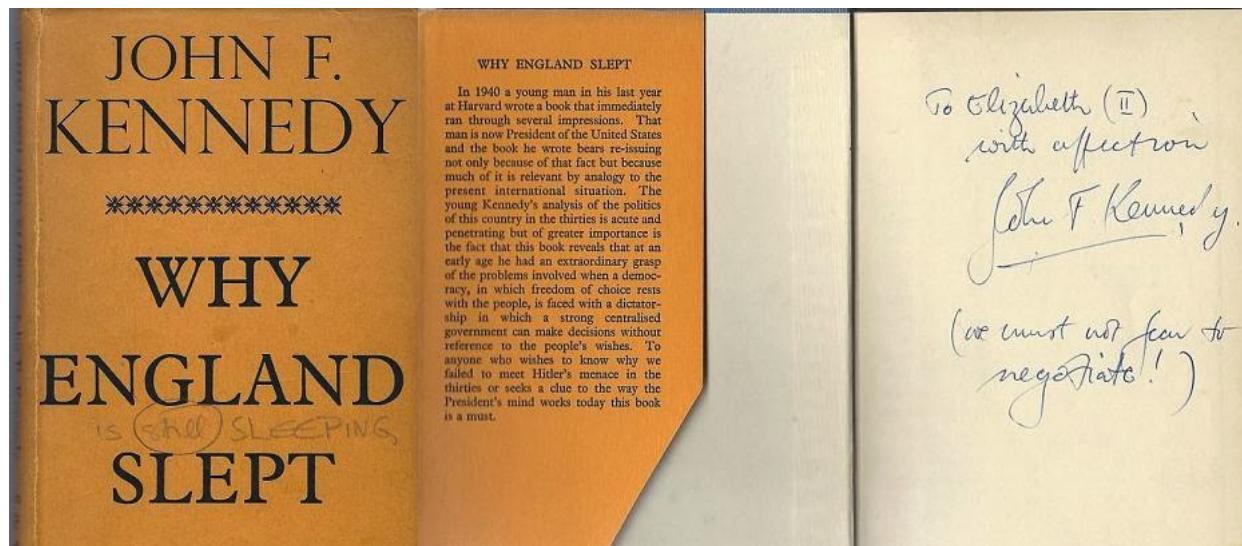
**Right:**  
*Brooklyn Eagle*  
July 1914  
newspaper



cartoon, titled *A Chain of Friendship*, captioned: "If Austria attacks Serbia, Russia will fall upon Austria, Germany upon Russia, and France and England upon Germany."







**"IS STILL SLEEPING": Kennedy's inscription on the reprint of his book when President of the United States.**

Finally, as President John F. Kennedy himself proved while working at the American Embassy in London in 1939, *Grey was actually responsible for the "arms race" scares in Britain which both encouraged Hitler's rearmament and motivated Britain's pacifist disarmament in the 1930s, thus contributing to WWII (not only to the outbreak of WWI)*!

Edward Grey's lying excuse after WWI devastation broke out in 1914 was that the "arms race" (not his own bungling) caused WWI! Here are the words of President John F. Kennedy's 80,000 copy bestselling book *Why England Slept*, Sidgwick and Jackson, London, 1962 (first published 1940), page 16 ([the original editor's book typescript is in the Kennedy Library archive, linked here](#)):

"The statement of Lord Grey, British Foreign Minister, made in 1914, that, "The enormous growth of armaments in Europe, the sense of insecurity, and fear caused by them; it was these that made war inevitable,' had a tremendous effect on post-war British opinion. Armaments were looked upon as something horrible, as being the cause of war, not a means of defence. Again and again, through the 'thirties, opponents of rearmament quoted Grey."

Of course, Grey wasn't the *only* one in the Cabinet solely responsible for Britain's declaration of WWI. Winston Churchill, who was First Lord of the Admiralty in August 1914 (in charge of Britain's Navy) and David Lloyd George, who was Chancellor of the Exchequer, should have had a better handle on what was going on, but they were too busy with military and domestic matters, and thus accepted Grey's reassurances until it was too late. But the fact is that Grey, had he been more lucid, *could have potentially deterred the Kaiser by making Britain's position clearer sooner, instead of getting "the worst of all worlds" by bungling into disaster*. By speaking softly and avoiding any threat, *Grey minimized the possibility of directly escalating the confrontation himself (thus protecting his own neck and avoiding a row with Cabinet colleagues who were pacifist)*, but in this end it was not a good policy, because it had the dire, negative effect of *conveying the impression of weakness, indecision and exploitable foolishness to the enemy*.

*(This same situation recurred 25 years later, which again led to lies from the culprit: Chamberlain had the brass cheek to lie that after WWII broke out that he had been buying time for British rearmament at Munich in 1938, when he knew at the time that Germany was arming faster than Britain so every second of postponed war was causing a reduction in the probability of Britain winning the war. Chamberlain knew this. Churchill had warned the Government using a famous Daily Express article in 1934, but lying Prime Minister Baldwin ignored the truth, as did Chamberlain. Afterwards, these dictatorship-supporting thugs got off scot-free by telling lies, just like Grey did in 1914. Chamberlain knew in 1938 that Germany was in an all-out arms race and was arming faster than Britain. If your opponent is arming faster than you are, every second of delay on your part allows the enemy to acquire more weapons than you can, so the imbalance increases! The lying historians today still ignore these facts on rearmament rates - published by President John F. Kennedy in his 1940 thesis and best-selling 80,000 copy book "Why England Slept" - out of ignorance of economics and science,*

*and out of anti-nuclear, anti-arms race bias. In the same way, these lying historians screw up the true history of the biological effects of radiation and DNA repair mechanisms, in suit their political agendas. It is sick.)*

*Therefore, unlike the assassin of the Archduke and others players, Grey's role in the start of WWI was not merely a trivial convenient excuse for war, because Grey actually had the power to influence the Kaiser, yet failed to do so. Therefore, Grey could have prevented WWI, by acting differently. Likewise, Chamberlain wasn't the only cause of WWII, but he should have understood from Grey's 1914 failure, that the only language of diplomacy is force: action speaks louder than words. Putin understands this.*

THE people of western Ukraine, in throwing out his choice and protégé, utterly humiliated Vladimir Putin but he has had his swift revenge. And as usual a ruthless dictator has run rings around the West and its posturing ninnies.

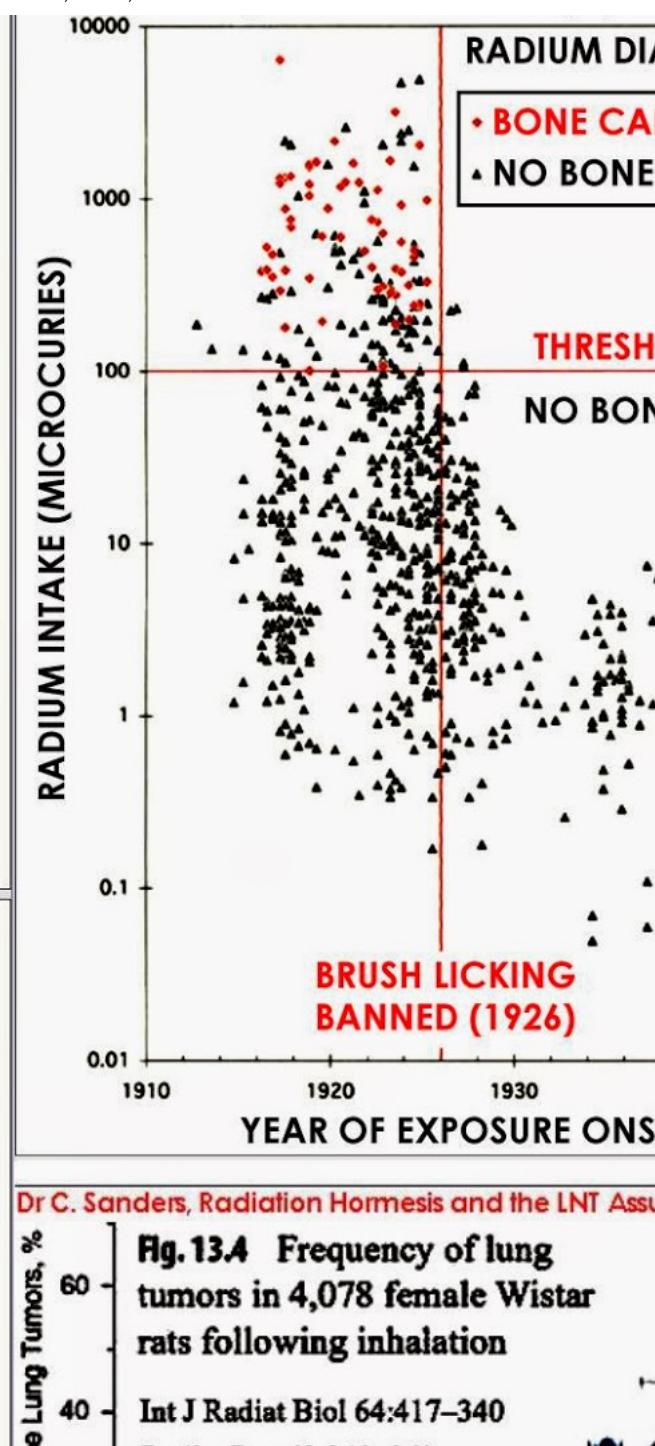
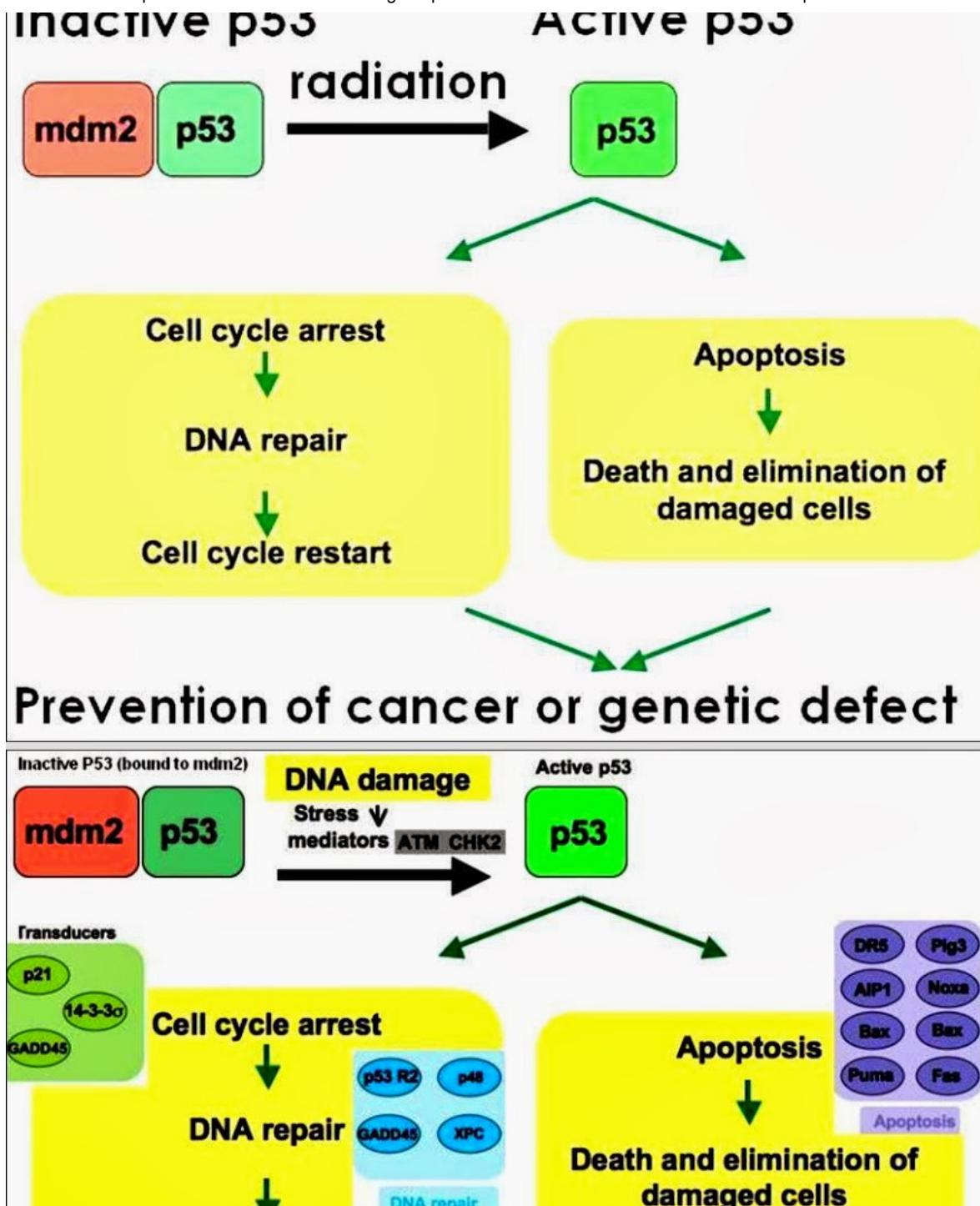
The EU has very predictably proved useless, shipping in its foreign high representative Cathy Ashton – why does she always look so utterly bewildered? It is all beginning to look like a replay of 1938. Back then Hitler was determined to rape Czechoslovakia. So he concocted nonexistent persecutions by the Czechs of

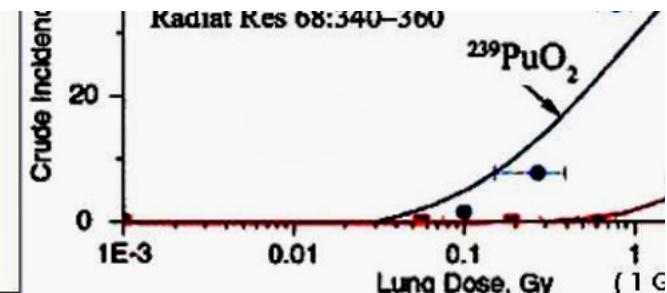
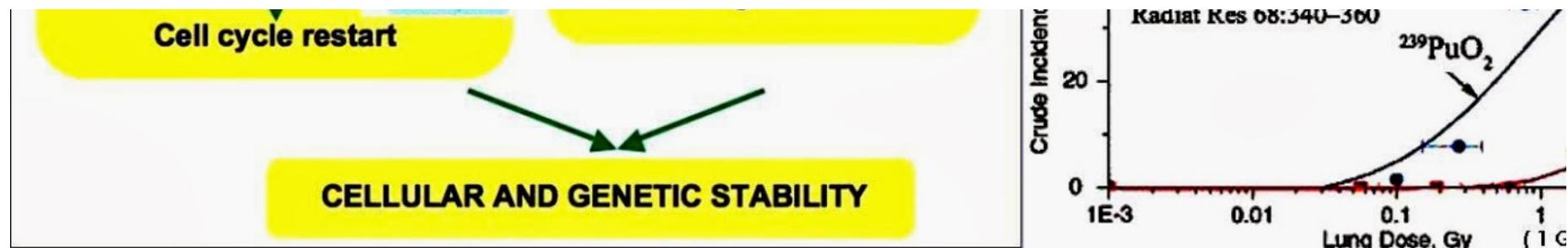
the Sudeten Germans and then raced in to “rescue” them. At his leisure he then gobbled up the rest.

Out of reach and out of touch we sent over Neville Chamberlain to wave things and utter platitudes. Now we have William Hague to do that job but it is still the same job. (Why do Eastern thugs always run rings round our Foreign Office?)

The simple truth is that, as with Syria, Putin has won hands down. But it need not continue like that – it is up to us. Putin has one strength and only one: his huge reserves of gas and oil and our dependence on them

Update: incorrect propaganda fear-mongering on radiation effects by right-wing (not merely left-wing) continues in recent articles.





Jane Warren writes in a double-page feature in the *Daily Express* (1 March 2014, pages 36-37) that the genetic deformities of Igor Pavlovets, who was born on 3 March 1987 nearly one year after the accident by which time iodine-131 had disappeared, were caused by radiation from Chernobyl in 1986:

"Following the explosions at the Chernobyl reactor on April 26, 1986, in what was then the Soviet Union, a generation of children was born with disabilities caused by radiation. Igor was one of the first."

Everyone humane is very glad that Jane Warren got Igor Pavlovets to England and a better life than he would have got in the USSR and the following corrupt regimes, but the good news she doesn't report is that there is extensive objective scientific evidence from Hiroshima and Nagasaki that proves Igor Pavlovets with overwhelming probability did not get his deformities from the sub-lethal levels of radiation his parents were exposed to. Isn't that great news to report, Jane Warren? (Or is there still a Jane Warren bias against truth when it comes to radiation, as Dr Sanders suggests in his conclusive 2010 book, *Radiation Hormesis and the Linear No-Threshold Assumption*, published by Springer?)

[http://download.springer.com/static/pdf/439/bfm%253A978-3-642-03720-7%252F1.pdf?auth66=1393952668\\_41a73ccc7c7c7b7f33515baf90294c7&ext=.pdf](http://download.springer.com/static/pdf/439/bfm%253A978-3-642-03720-7%252F1.pdf?auth66=1393952668_41a73ccc7c7c7b7f33515baf90294c7&ext=.pdf)

For this evidence that sub-lethal nuclear radiation exposure doesn't produce any statistically significant rise in genetic deformities, please see the studies made by the official Japanese-American "Radiation Effects Research Foundation", [http://www.rerf.jp/radefx/genetics\\_e/birthdef.html](http://www.rerf.jp/radefx/genetics_e/birthdef.html):

"No statistically significant increase in major birth defects or other untoward pregnancy outcomes was seen among children of survivors. Monitoring of nearly all pregnancies in Hiroshima and Nagasaki began in 1948 and continued for six years. During that period, 76,626 newborn infants were examined by ABCC physicians. When surveillance began, certain dietary staples were rationed in Japan, but ration regulations made special provision for women who were at least 20 weeks pregnant. This supplementary ration registration process enabled the identification of more than 90% of all pregnancies and the subsequent examination of birth outcomes."

Genetic defects are not caused by radiation but are instead caused by occasional natural mistakes during the complex epigenetic differentiation of limbs and organs. We don't need to subscribe to left-wing myths about radiation induced mutations, just because of communist propaganda from the Cold War which tried to scare the West into surrendering. If we had surrendered, I fear Igor wouldn't have a life in England. I submitted a brief and polite, factual comment on this to the *Daily Express* website, so we'll see if Jane Warren continues to use unjustified emotional propaganda and ignore objective evidence on the subject of Igor:

It is great Jane Warren and supporters helped Igor Pavlovets come to England after Chernobyl to receive a far better life than he would have had in the USSR and its successor, but one new piece of good news which she doesn't report is available.

There is strong evidence from Hiroshima and Nagasaki arguing the case that Igor may not have been deformed by the survivable levels of radiation his parents were exposed to. Instead, genetic defects are caused by occasional natural mistakes during the complex epigenetic differentiation of limbs. For evidence from 76,626 children born after the nuclear explosions at Hiroshima and Nagasaki without any statistically significant rise in normal rates of genetic deformities, see the official Japanese-American "Radiation Effects Research Foundation", [http://www.rerf.jp/radefx/genetics\\_e/birthdef.html](http://www.rerf.jp/radefx/genetics_e/birthdef.html):

"No statistically significant increase in major birth defects or other untoward pregnancy outcomes was seen among [76,626] children of survivors."

If uncorrected, this type of scare mongering on radiation undermines everything from safe electric power to the deterrence of World War III. The supposedly "right wing" newspapers might as well move to Moscow when it comes to believing emotional lies and ignoring the extensive data and reassuring facts on radiation safety from

**Hiroshima and Nagasaki nuclear warfare.** It's a mixture of the journalist's training in appealing to *human emotions and superstitions*, and bad scientific education. (Say "prove it" to those guys and your request is not taken as a responsible demand for accuracy and precision and research on their part, but as somehow "unfeeling callous cold heartedness". Well, if we disarm and all get wiped out by Siberian salt mines, "nice warm emotional lies" won't cut much ice, as Herman Kahn used to say.) While on the subject of inaccurate, emotional watermelon-style "radiation news reporting", the people of Bikini Atoll are still being duped into staying away from paradise by the fascist thugs, despite the use of potassium fertilizer to prevent Cs-137 uptake being recommended first in 1959 to protect the people of Rongelap (this recommendation was published, but never acted upon by the incompetent groupthink secret committees of loonies).

**Setting all the Nazi style, originally secret-classified "Gestapo-like" groupthink crackpot conferences and the angry, bigoted, demented censorship "reports" of undemocratic, mean-spirited, KGB-style, 1930s-British-appeasement-like, CND-worshipping, "nuclear weapons effects expert opinion" aside, please see page 830 of the published June 1959 U.S. Congressional Hearings on "Biological and Environmental Effects of Nuclear War", linked here, for proof that it was scientifically well understood in 1959 that potassium is in the same group of the Periodic Table of chemistry as cesium, so that adding potassium to the potassium-deficient soil at Bikini, Eniwetok and Rongelap would prevent the uptake of cesium-137 by plants and food chains. If the *Guardian* and BBC want to expose a "real conspiracy" by America to destroy the world using radiation cover-ups, here is it. But this doesn't suit their political, warped, lying **agenda**, so these evil bullying, ignorant, propaganda-supporting, complacent, pseudo-liberal "green"-fascist thugs simply help to *cover it up as usual*.**

The facts were also globally published in the following 10 December 1988 *New Scientist* article, "**Potassium could cover up Bikini's radioactivity**" (*if the American's don't improve their communication skills regarding decontamination successes, the Bikini islanders will forget all about the joys of Bikini and prefer to join the CND disarmers instead, funded to promote emotional hogwash for turning the world communist or "green"*):

## Potassium could cover up Bikini's radioactivity

ISLANDERS could return to Bikini Atoll, the site of 23 nuclear tests between 1946 and 1958, if they spread compounds containing potassium over the ground. This is the opinion of a team of researchers from Lawrence Livermore National Laboratory in California who returned from the Pacific island last week.

Bikini Atoll is in the Marshall Islands, which lie about halfway between Australia and Hawaii. High levels of radioactivity in the food crops have prevented the resettlement of the islands. The researchers from the US have found that the application of either potassium chloride or fertiliser containing potassium will block the uptake of the radionuclide, caesium-137, by food crops.

Some of the islanders favour a more radical solution—scraping off and dumping the topsoil that contains the caesium. But this so-called "excavation solution" could have drastic environmental consequences. It would involve denuding the islands of vegetation, including the removal of 40 000 mature coconut trees on the island of Bikini. Also, the top 45 centimetres of soil contains most of the island's organic material that provides nutrients and helps to retain water.

Scientists have abandoned a third option—leaching the caesium from the soil by the action of salt water—after experiments by the Livermore group.

The island of Bikini, the main island in the atoll, became uninhabitable in March 1954, when an unexpected change in the direction of the wind blew fallout from Bravo, a 15-megaton hydrogen bomb, over the island.

The Bikinians, now numbering about 1300, were evacuated to other islands in the Marshall group. Some of the islanders returned in 1971, but after about seven years on Bikini, researchers discovered that their exposure to radiation through food crops was unacceptably high.

Scientists from the environmental

Ian Anderson, San Francisco

division of Livermore have been visiting Bikini Atoll and Enewetak Atoll, the site of 43 nuclear explosions, since 1972. After each visit, they bring back to the laboratory about 1400 samples of soil and food.

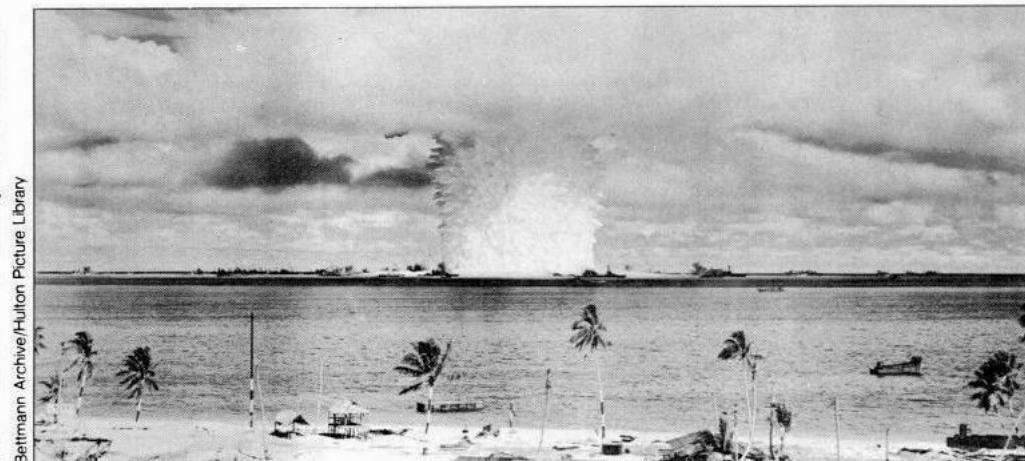
Coral soils are particularly susceptible to caesium contamination compared with the clay soils that are found in Europe and the US. The coral soil is basically composed of calcium carbonate which will bind strontium-90, another radionuclide, but not caesium. So, in the absence of potassium, the caesium becomes available to plants and trees.

At the moment, if islanders were to eat

experiments at Livermore, the level can fall as low as 3 picocuries per gram. The experiments show that the treatment can also protect vegetables such as squash, corn and okra.

The plants draw caesium from the soil because its atomic structure closely resembles potassium, an essential element. But if potassium is plentiful, the soil does not take up caesium. The other part of the islanders' diet—fish—is no longer contaminated by radiation.

The US Congress has allocated \$90 million over the next four years for the cleanup. The final choice of method for decontaminating Bikini island will be made by the Bikinians. William Robison, who



*Return to paradise may not be long postponed*

foods that are common on Bikini Atoll—coconuts, breadfruit and pandanus—they would be exposed to about 1000 millirems of radiation per year. This is about six times higher than the recommended maximum exposure in the US.

The average level of radioactivity in coconuts on Bikini island is about 100 picocuries per gram. When potassium compounds are applied, according to the

heads the research team from Livermore, says that the Bikinians are starting to support a compromise—they will agree to the application of potassium compounds, but will scrape away the contaminated soil from around their houses. The drawback of using potassium is that the soil will remain radioactive until the caesium decays—a process that is likely to take between 80 and 90 years. □

## Bikini Atoll coral biodiversity resilience five decades after nuclear testing

Zoe T. Richards<sup>a,b,c,f,\*</sup>, Maria Beger<sup>d,f</sup>, Silvia Pinca<sup>e,f</sup>, Carden C. Wallace<sup>a</sup>

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<sup>c</sup> School of Marine and Tropical Biology, James Cook University, Townsville QLD 4811, Australia

<sup>d</sup> The Ecology Centre and The Commonwealth Research Facility for Applied Environmental Decision Analysis,

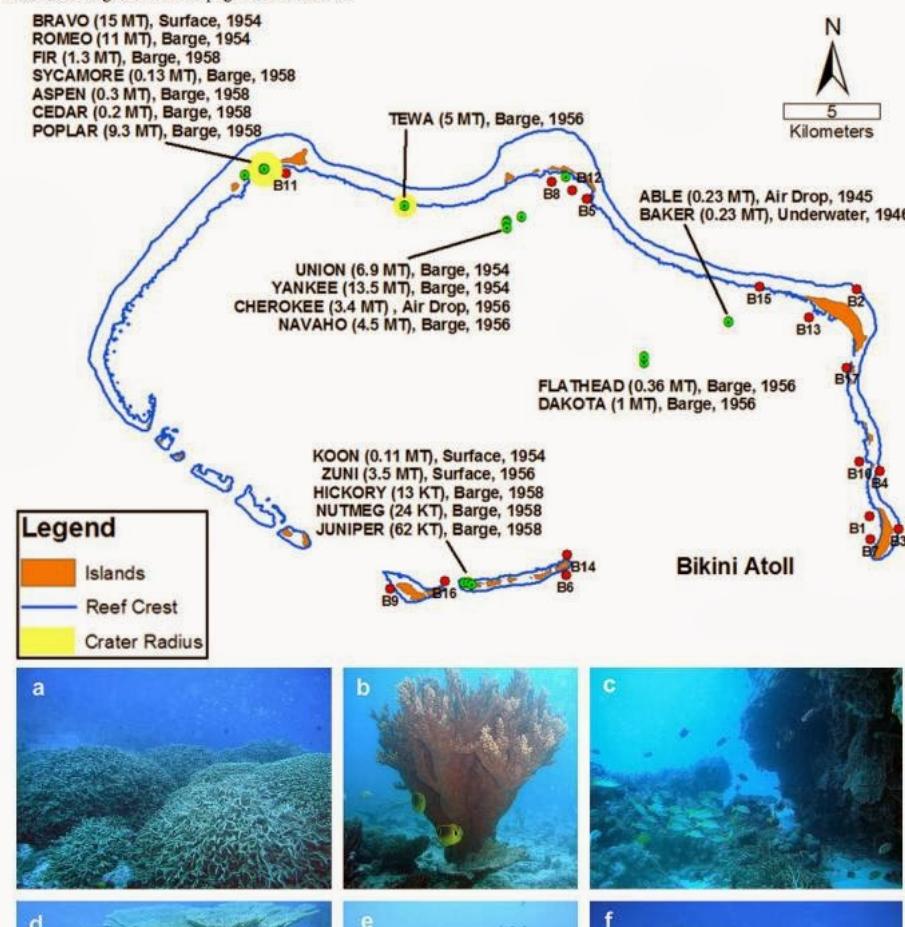
University of Queensland, St Lucia, QLD 4072, Australia

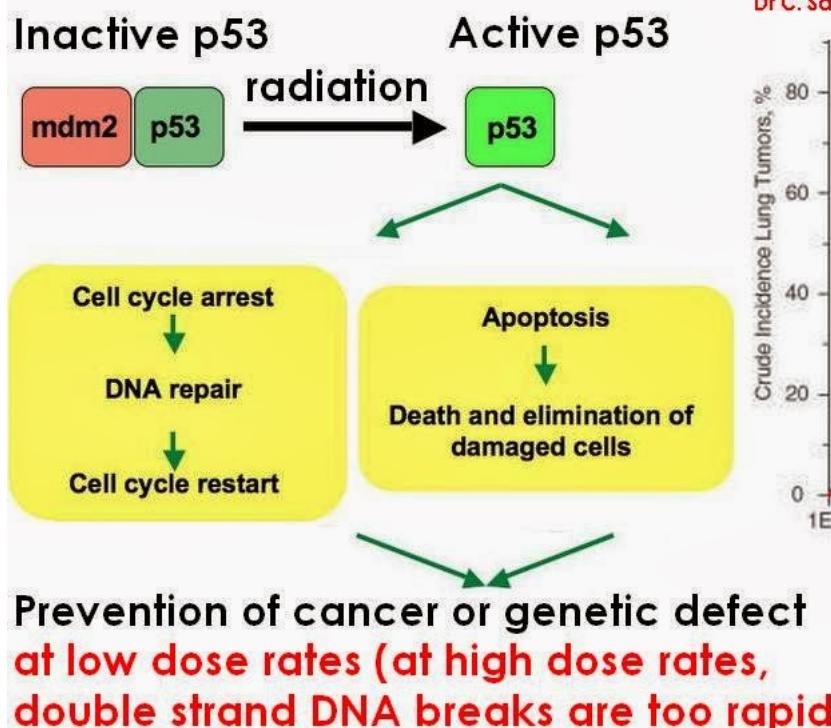
<sup>e</sup> College of the Marshall Islands, Majuro, Marshall Islands

<sup>f</sup> NRAS – Marshall Islands: Natural Resource Assessment Surveys

### Abstract

Five decades after a series of nuclear tests began, we provide evidence that 70% of the Bikini Atoll zooxanthellate coral assemblage is resilient to large-scale anthropogenic disturbance.



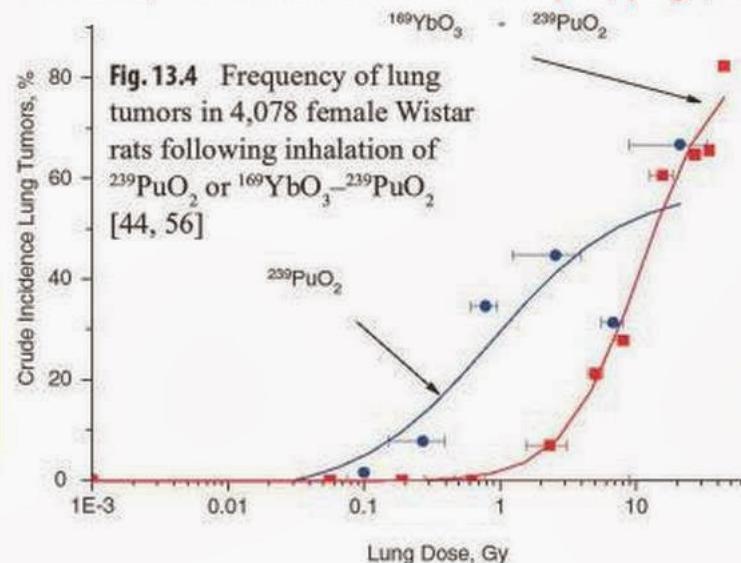


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M. P. Finkel "Relative Biological Effectiveness of

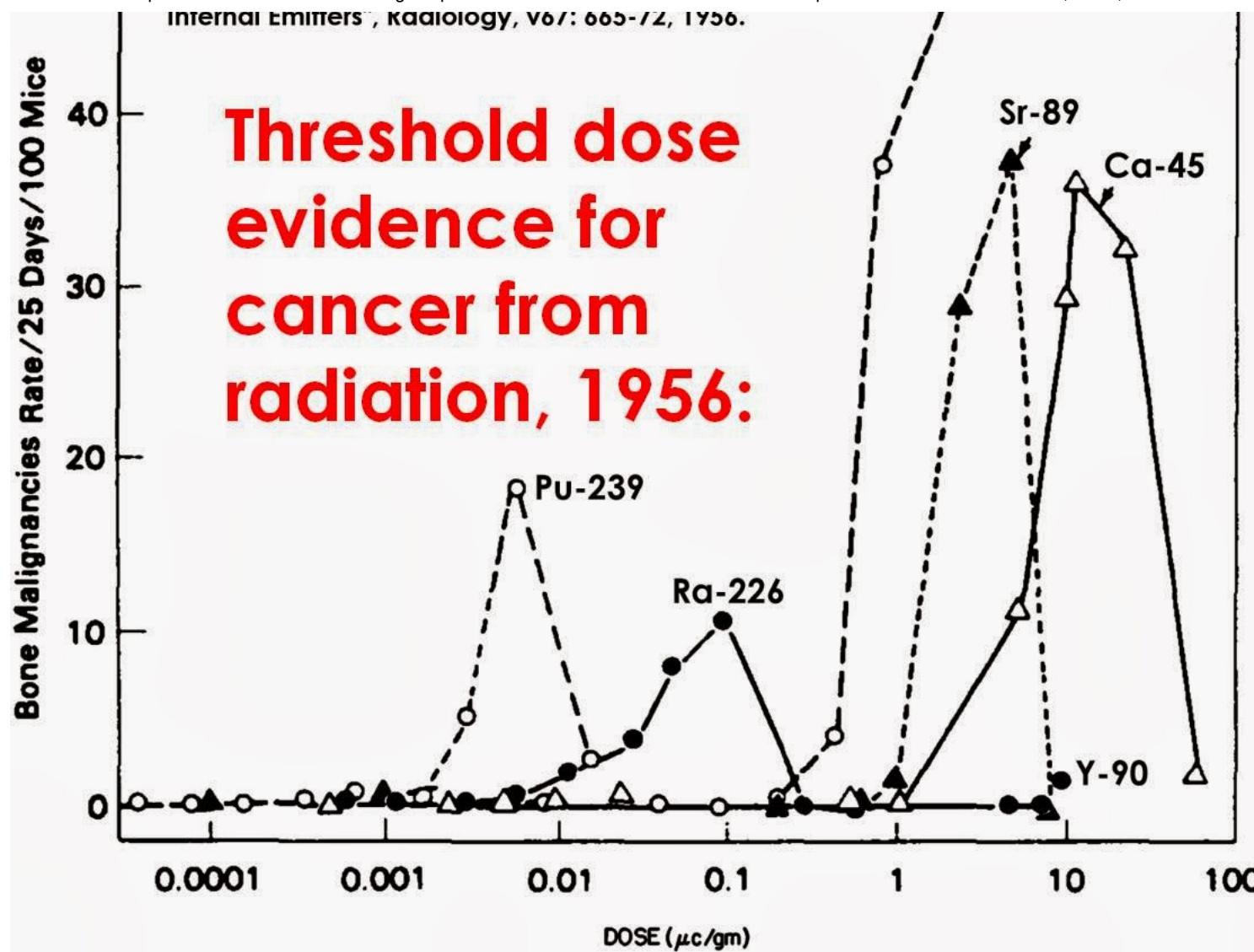
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Dr C. Sanders, Radiation Hormesis and the LNT Assumption, Springer, 2010



44. Sanders CL, Lauhala KE, McDonald KE (1993) Lifespan studies in rats exposed to  $^{239}\text{PuO}_2$  aerosol. III. Survival and lung tumors. Int J Radiat Biol 64:417-340

56. Sanders CL, Dagle GE, Cannon WC et al (1976) Inhalation  $^{239}\text{PuO}_2$  in rats. Radiat Res 68:340-360





Recovery of a nuclear testing ground: Enewetak lagoon off Runit Island, Enewetak Atoll, 2005. <https://marshallislands.llnl.gov/photos04.php>



Enewetak lagoon off Runit Island, Enewetak Atoll (2005)



The biggest source of radioactive cesium-137 at Bikini, Eniwetok, and Rongelap atolls since 1958 has been the delicious barbecued tree-climbing coconut crab (which climbs trees and eats coconuts). Cesium-137 taken up by coconuts gets concentrated in the coconut crabs.





It was reported by Lawrence Livermore National Laboratory in the "Journal of Environmental Radioactivity" (volume 88, page 251) that simply applying potassium fertilizer (1 ton per hectare) to the soil around the coconut trees reduces the cesium-137 uptake by the coconuts (and therefore by tree climbing coconut crabs, subsequently) by 20 times, i.e. to just 5% of already low level radiation exposure, and only one application of potassium is needed every 10 years, concluding: "It would be hard to overstate the importance of this reassurance to returning populations."

<https://marshallislands.llnl.gov/photos09.php>: "The largest contributor to radiation doses from exposure to residual fallout contamination in the Marshall Islands comes from cesium-137. ... coconut crabs (refer photo shown above) form an important and prized source of food in the Marshall Islands and, in certain locations, have been found to contain above average concentrations of cesium-137."

<https://marshallislands.llnl.gov/bikini.php>: "Twenty-three nuclear devices were detonated on Bikini Atoll between 1946 and 1958 with a combined fission yield of 42.2 Megaton (Mt) ... An additional forty-three atmospheric nuclear tests were conducted on Enewetak Atoll about 300 km to the west of Bikini Atoll. The most significant contaminating event in the Marshall Islands nuclear test campaign and the highest yield atmospheric nuclear test ever conducted by the United States involved the detonation of a high-energy thermonuclear on Bikini Atoll on 1 March of 1954. This ground-surface test was code named *Bravo* and had an estimated explosive yield of 15 Mt. ... Through the early 1980s, scientists from the Lawrence Livermore National Laboratory developed an extensive database of environmental measurements for Bikini Atoll, especially for soils and vegetation growing on Bikini and Eneu Islands. ... During this period, predictive dose assessments for both Bikini and Enewetak Atolls clearly indicated that the most significant pathway for human exposure to residual fallout contamination in the Marshall Islands was ingestion of cesium-137 contained in locally grown root crops such as coconut, breadfruit, and *Pandanus* (Robison et al., 1980; 1982). ... One key factor that helps explain why cesium-137 plays such an important role in contributing to radiation exposure in the Marshall Islands is that coral soils are known to contain little or no clay material and very low concentrations of naturally occurring potassium—an alkaline earth element that shares similar properties with cesium. These conditions result in increased uptake of cesium-137 from soil and incorporation into plants relative to the rate of cesium-137 uptake from continental soils. Consequently, the significance of dietary intakes of cesium-137 from eating locally grown foods was initially overlooked because early models in radioecology were based on continental type soils and exposure conditions. ... the most effective and practical method for reducing the uptake of cesium-137 into food crop products was to treat agricultural areas with potassium fertilizer (KCl). The addition of potassium had the added benefit of increasing the growth rate and productivity of some food crops with essentially no adverse environmental impacts. ... experiments show that a single application of 2000 kg per ha of potassium can be effective in reducing the cesium-137 uptake in coconut meat (and juice) to about 5% to 10% of the pretreatment level. ... we have recently demonstrated that the environmental half-life of cesium-137 is more important than radiological decay in controlling the fate and distribution of cesium-137 in coral soils (Robison et al., 2003). For example, the estimated effective half-life of cesium-137 on Bikini, Enewetak, and Rongelap Atolls is around 8 to 9.8 years (95% confidence) compared with its radiological half-life of 30 years. ... cesium-137 is slowly being incorporated into more resistant mineral phases within the soil and, through aging effects, may be becoming less available for soil-to-plant transfer. ... Applying a mean effective cesium-137 half-life of 8.5 years for the data developed for the 1999 Bikini dose assessment (Robison et al., 1997a), the predicted population average **effective dose** for resettlement of Bikini in 2010, where imported foods are available, is conservatively estimated to be about 0.17 mSv per year (17 mrem per year) or very close to the self-imposed cleanup standard of 0.15 mSv per year adopted by the Republic of the Marshall Islands Nuclear Claims Tribunal. With this understanding and the fact that exposure conditions on Bikini are improving at an accelerated rate, early resettlement of Bikini Atoll may become much more plausible and cost effective."

(Shame on LLNL for providing an unreadably poor-quality, badly uploaded PDF Bikini Atoll datasheet: [https://marshallislands.llnl.gov/pdf/bikini\\_factsheet.pdf](https://marshallislands.llnl.gov/pdf/bikini_factsheet.pdf) They might as well keep it locked in a safe marked "top secret" for all the use it is in making the facts lucid !)

<http://www.japantimes.co.jp/news/2014/03/02/asia-pacific/bikini-atoll-islanders-fearful-of-return-home> has the following (surprisingly high-definition) photo of the 360 kiloton *Redwing-Mohawk* nuclear explosion on a 300 ft tower at Eniwetok on 3 July 1956, passed off as the 15 megaton Bravo test at Bikini, followed by an account of Bikini Islander radiation fears (which we specifically debunked in the previous post on this blog!!):





**Above:** 360 kt Redwing-Mohawk on Eberiru Island in Eniwetok Atoll (detonated on a 91 metre tower, on 3 July 1956), a UCRL thermonuclear device employing a compact fusion-boosted Swan-type (11.6" by 22.8", 105 lb) primary fission stage and a Flute-type secondary (thermonuclear) stage. The bomb was 15" in diameter, 46.2" long, with a mass of 1116 lb. The resulting crater was only 8 feet deep. **The Japanese article wrongly states that this was the 15 megaton Bravo test in 1954 at Bikini Atoll! The article continues:**

"The Marshall Islands on Saturday marked 60 years since the devastating U.S. hydrogen bomb test at Bikini Atoll, with angry exiled residents saying they are too fearful to ever go home. ... "The government says 'don't worry' (about radiation exposure), but recently we've seen many cases of thyroid problems be confirmed in the Fukushima area," said Kai Sato, a Fukushima University student. **[Sato: the half-life of the longest lived thyroid radiation iodine isotope, iodine-131, is only 8 days, it is a myth that continuing long-delayed cancers from the actual radiation exposure back in 1954 are somehow due to continuing low-level radiation at Bikini and everywhere else on earth, which is now mainly natural potassium-40, uranium-238, radon, etc.]** "People don't know what is the correct information to believe." ... But a U.N. report in 2012 ... called for the U.S. to provide extra compensation to settle claims by nuclear-affected Marshall islanders and end a "legacy of distrust." The Nuclear Claims Tribunal awarded more than \$2 billion in personal injury and land damage claims arising from the nuclear tests, but stopped paying after a U.S.-provided \$150 million compensation fund was exhausted."

I have submitted the following polite fact correcting comment for moderation:

This is a fine article. But I think that the photograph of the nuclear test at the top of the article is not Bravo at Bikini Atoll, but is Redwing-Mohawk on Eberiru Island in Eniwetok Atoll (360 kilotons thermonuclear explosion on a 91 metre tower, on 3 July 1956). For confirmation of this fact, please see <http://nuclearweaponarchive.org/Usa/Tests/Redwing.html> [**that site contains all the classic groupthink errors on nuclear effects, however**]

*[Update: the mis-captioned Redwing-Mohawk photo was removed and replaced by a correct photo after I submitted my comment.]*

At Bikini Atoll (scene for 42 megatons of fission yield in 23 nuclear tests), cesium-137 is only important in food chains in soil deficient in potassium, and cesium-137 uptake by crops at Bikini was diluted by adding potassium chloride fertilizer to soil (potassium is chemically similar to cesium, and thus works by the same dilution mechanism as iodine tablets for thyroid protection).

Lawrence Livermore National Laboratory (<https://marshallislands.llnl.gov/bikini.php>) found that the "effective half-life of cesium-137 on Bikini, Eniwetok, and Rongelap Atolls is around 8 to 9.8 years", not the laboratory radioactive half life figure of 30 years! This is because cesium compounds are relatively water-soluble and cesium-137 (as with iodine-131 and strontium-90) is fractionated in fallout (coated on the outer surface of fallout dust, not fused inside the particles) so it dissolves in rain and is soon weathered out of the local environment, ending up in the ocean (where it's totally insignificant compared to the immense natural radioactivity of sea water from potassium-40). Similarly, if you eat cesium-137, it doesn't build up in your body with a 30 year half life, but is flushed out with water with an effective half life of only about 3 months!

"Large-scale field experiments on Bikini Island have been used to optimize the required amount and application rates of potassium (Figure 3). The results from these experiments show that a single application of 2000 kg per ha of potassium can be effective in reducing the cesium-137 uptake in coconut meat (and juice) to about 5% to 10% of the pretreatment level. Multiple applications (over several months) of the same total amount of potassium produce even better and more consistent results. Moreover, the concentration of cesium-137 in the coconuts

following remediation remains low for an extended period of time, so the need for continuous effort and retention of scientific and technical expertise is minimized (Robison et al., 2004)."-

<https://marshallislands.llnl.gov/bikini.php#remed>

So there is hope for Bikini Atoll. If the American government would publish a revised edition of its book "The Effects of Nuclear Weapons" (last revised in 1977), it would help these people to understand the recent progress in decontamination and safety measures against fallout. Thank you for your excellent article.

The **Guardian newspaper has also followed this story, but with a slightly more open-minded headline:**

## Bikini Atoll nuclear test: 60 years later and islands still unliveable

Marshall Islanders unable **or unwilling** to return to traditional home, scene of huge US hydrogen bomb test in 1954 **[Emphasis added!]**

My comment to the Guardian:

Lawrence Livermore National Laboratory, <https://marshallislands.llnl.gov/bikini.php#remed>:

"Large-scale field experiments on Bikini Island ... show that a single application of 2000 kg per ha of potassium can be effective in reducing the cesium-137 uptake in coconut meat (and juice) to about 5% to 10% of the pretreatment level. Multiple applications (over several months) of the same total amount of potassium produce even better and more consistent results. Moreover, the concentration of cesium-137 in the coconuts following remediation remains low for an extended period of time, so the need for continuous effort and retention of scientific and technical expertise is minimized (Robison et al., 2004)."

At Bikini Atoll (scene for 42 megatons of fission yield in 23 nuclear tests), cesium-137 is only important in food chains in soil deficient in potassium, and cesium-137 uptake by crops at Bikini was diluted by adding potassium chloride fertilizer to soil (potassium is chemically similar to cesium, and thus works by the same dilution mechanism as iodine tablets for thyroid protection).

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compounds are relatively water-soluble and cesium-137 (as with iodine-131 and strontium-90) is fractionated in fallout (coated on the outer surface of fallout dust, not fused inside the particles) so it dissolves in rain and is soon weathered out of the local environment, ending up in the ocean (where it's totally insignificant compared to the immense natural radioactivity of sea water from potassium-40). Similarly, if you eat cesium-137, it doesn't build up in your body with a 30 year half life, but is flushed out with water with an effective half life of only about 3 months!

There are exaggerations of radiation effects, and a bias against truth when it comes to radiation, as Dr Sanders suggests in his conclusive 2010 book, *Radiation Hormesis and the Linear No-Threshold Assumption*, published by Springer:

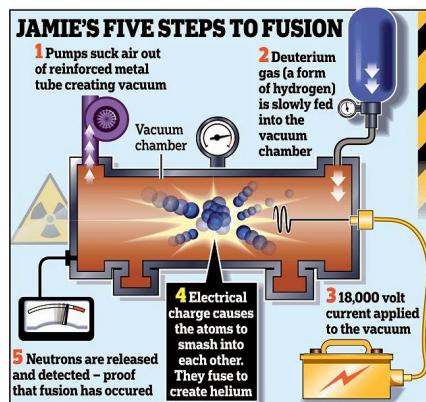
[http://download.springer.com/static/pdf/439/bfm%253A978-3-642-03720-7%252F1.pdf?  
auth66=1393952668\\_41a73ccc7c7c7b7f33515baf90294c7&ext=.pdf](http://download.springer.com/static/pdf/439/bfm%253A978-3-642-03720-7%252F1.pdf?auth66=1393952668_41a73ccc7c7c7b7f33515baf90294c7&ext=.pdf)

Hopefully, this will be taken kindly and not with the censorship dished out by people like Dr Alex Wellerstein of "NukeMap" fame, who censors facts of relevance to the groupthink emotional delusion and nonsense on the subject, and relevant also to his "NukeMap" exaggeration of nuclear weapons effects in urban target areas, apparently as simply being "boring", in the true spirit of propaganda that helps in achieving his **right-wing Daily Mail newspaper acclaim**:

<http://www.dailymail.co.uk/sciencetech/article-2101508/Want-know-effect-nuclear-bomb-home-town-Theres-app-that.html>

**Want to know the effect of a nuclear bomb on your home town? There's an app for that**

For a debunking of the equations "NukeMap" uses, i.e. Glasstone-type unobstructed, unshadowed desert nuclear test effects - which are exaggerations when applied to modern concrete city targets that absorb the heat flash, nuclear radiation and blast wave energy - see the previous posts, linked [here](#) and [here](#).



**Above:** 13 year old Jamie Edwards achieved nuclear fusion at school in Lancashire, proved by radiation measured by a Geiger counter. However, this is not proof that anybody can make a hydrogen bomb or fusion-powered time-travelling DeLorean, or that we need to "disarm" Britain of school kids who study physics in case they blow up the universe. **The fusion problem is quantitative, not qualitative, contrary to newspaper hype today:**

And yesterday, in a 'radiation controlled area' in a classroom, before an audience of experts, he flicked a switch and stared intently at his Geiger counter until it registered that fusion had indeed taken place – or created 'a star in a jar', as Jamie refers to it. Nuclear fusion, the reaction that powers the sun, is very different from nuclear fission, or the splitting of the atom, that occurs in nuclear power stations and is the stuff of atom bombs. However, both release vast amounts of energy. Scientists around the world are replicating Jamie's experiment, but on a much bigger scale, in the hope of using it on a large scale to fuel cheap, environmentally-friendly power stations. Jamie said: 'I heard the Geiger counter rapidly go up and I was "What is that?"', he said in the afterglow of success. 'Then I looked over and the neutron counter was right up off the scale nearly, and I thought "We must have done it".'

The problem is the *amount of fusion is trivial*. *The scaling up of a fusion reactor to a practical power creates problems that don't exist on the small scale, so the proof of principle is not proof of practicality*. *The only way to get useful energy from fusion reactors is to use plasma (heated by lasers) that is confined using magnetic fields, so at a high enough power (gigawatts) to be economic, you have the problem that any instability or failure of the magnetic plasma confinement system will cause a devastating explosion. The scaled-up system is inherently unstable, and the very high energy fusion neutrons penetrate deeply into the surrounding materials, inducing radioactivity.*

Nuclear fusion is really only practical when the fusion fuel is compressed by a fission explosion in a hydrogen bomb, or by intense gravitational pressure in the middle of a star like the sun. Newspaper journalists and politicians and the mathematically sci-fi orientated "physicists" with little grasp of the *practical experimental problems that arise from real world scaling laws when you scale up laboratory tests*, are too easily taken in and duped by the guys who exaggerate the "potential" of fusion energy projects, in order to get comfy eternal funding grants to play with.

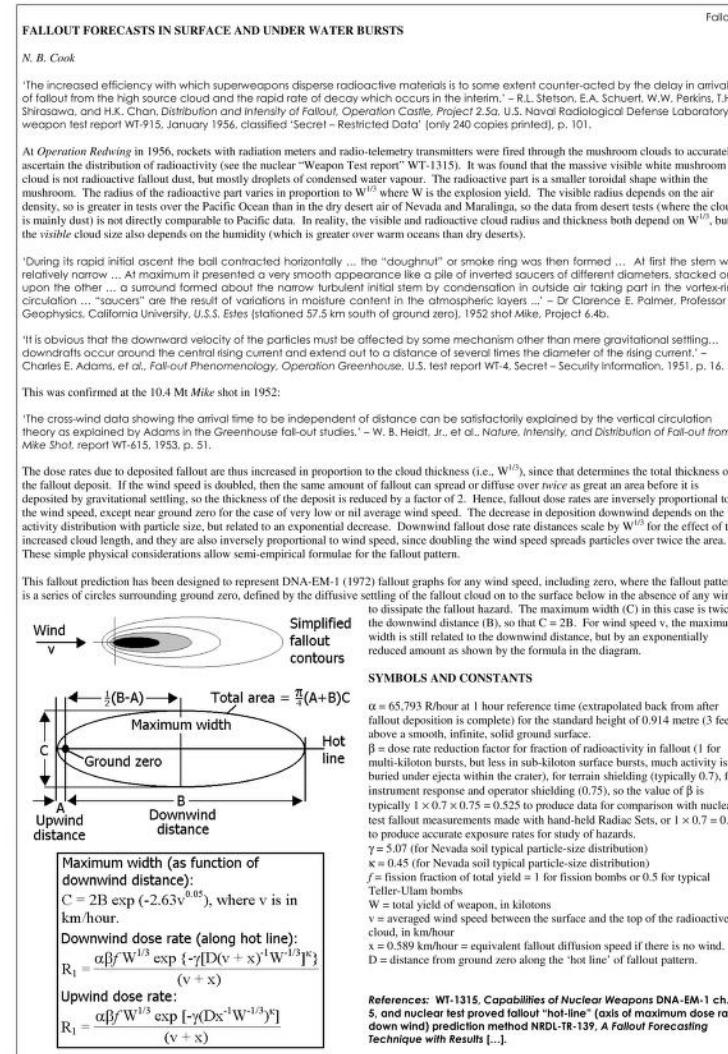
**Update (15 March 2014):**

Frederick Forsyth has yet another article out, called "EU was reason for the Biblical Floods" (yes, seriously), in the *Daily Express*, Friday 14 March 2014, page 13. In the interests of freedom of the press and avoiding censorship, a relevant quotation from the article is called for:

Officialdom still seeks to divert the blame away from the useless chieftaincy of the Environment Agency who years ago ordered that the centuries-old practice of dredging the channels should cease [the liars instead naturally lie and blame droughts due to global warming by CO2 for the floods, as expected]. But towering evidence proves it was indeed this insane order that was to blame and now there are more revelations. ... the instruction actually came from the EU in Brussels in a directive of 2007, slavishly adopted by the Brown government in 2008. It was called "making space for water", ie, flooding, and it was absolutely deliberate. Is it not amazing that British bureaucrats and politicians would prefer to be accused of mass murder rather than have it revealed how utterly servile they are to Brussels? ... a book called *The United States Of Europe* [the title may explain why Americans don't seem to understand what the fuss is about here, not realizing how many fascists and loons Britain has had to fight off in the nearly one thousand years of the British Empire since its last successful invasion in October 1066, how much blood has been spilled by so many written to preserve the very limited freedoms and very limited independence we enjoy today], strangely enough by a British theorist called Arthur Salter as far back as 1931 – even before Adolf Hitler tried to unify Europe his way. With

**Frenchman Jean Monnet, Salter was one of the original proposers of the complete political, economic and legal unification of the continent into one single superstate. Today's successors of course are Mandelson, Blair, Clegg and the BBC, who still continue to deny their real Utopian dream.**

**So here is what (in part) Salter had to say. "A common political authority ... would be for every country almost as important as, or even more important than, the national governments and would in effect reduce the latter to the status of municipal authorities." That is our country he was talking about and that is still the ultimate aim of the EU. Those at the heart of what in Brussels is referred to as The Project know perfectly well the end must involve the abolition of the nation state and its reduction to an EU region, Britain included. That is why the fanatics are desperate that you never get a referendum in which you might decide to keep Britain and dump Brussels. As they work quietly for this country's destruction a referendum is absolutely not what they want.**



### Fallout Prediction

<https://archive.org/details/FalloutPrediction>  
<http://vixra.org/abs/1403.0181>

Concise, brief 15-page fallout prediction model, covering both land surface and underwater nuclear explosions, radiation shielding by buildings, fallout solubility as function of particle size, retention on vegetation, gamma ray spectrum versus time, fractionation of fission products, salting by cobalt-60 etc., and effects of environmental neutron induced activities in fallout. Includes literature summaries and data reductions to formulae based on many reports. Written in brochure format for quick browsing, without boring bureaucratic organization. **Please note that we have also revised and expanded the overview information included on the British nuclear weapon trial "Operation Hurricane" Internet Archive declassified civil defense documents page, linked here.**



**Above:** the most divisive, politically-incorrect, left-vilified British political leader, photographed behind the turret machine gun of a British Challenger tank, flying a Union Jack flag, in Germany on 17 September 1986. Just thinking about how lucky it is for Putin the Great that he is not facing this hateful, divisive, iron lady. Maggie, like her friend Ronald Reagan, knew the political language of Russia. When she was elected in May 1979, Britain had been effectively bankrupt (but not as badly as by Gordon Brown thirty years later) by the Russians' socialist infiltration of British communist trade unions, which used block votes and intimidation of members to run the Labour Party. Every time the Labour Party tried to economise on pay, mass strikes resulted, culminating in the infamous 1978-9 "winter of discontent" when even the dead and the rubbish went unburied and uncollected. Britain was the "sick man of Europe", on a 3-day week to save fuel and electricity, had to ask for a bailout from the International Monetary Fund (IMF), and had TV transmission banned after 10:30 pm. Regular power cuts forced us to do our school homework by candlelight in the cold, after walking home on streets unlit by lamps. Maggie was rightly labelled the "iron lady" by the Russian propaganda machine; the woman divided Britain by her no-nonsense defeat of both Russia in civil defence and the arms race, and also its friends in the British trade unions. These trade unions were self-defeating monolithic, short-sighted, fascist-groupthink dictatorships, manipulated like CND by the "World Peace Council" and related Moscow-based propagandists. The trade unions had destroyed the British economy in the 1960s by striking for pay rises much higher than Britain's rivals overseas in Japan and China, who made better products at much lower prices. We were forced to buy expensive, technologically obsolete British crap that broke down immediately, because of the "import duty" taxation the socialists slapped on cheap foreign goods. Maggie reformed strike law to make decisions to strike democratic, instead of being due to dictatorial intimidation by a handful of hard-communist and underhand Orwellian "big brother" shop stewards and union officials. She cut the 98% socialist tax rate on high earners to motivate and encourage big businesses to be started and run effectively in Britain. She cut state spending to reduce the deficit and bring finances under control, despite the Cold War arms race. She shut down state-owned unprofitable weapons industries that were simply milking the taxpayer to fund the Swiss bank accounts of a few corrupt army and ex-army weapon buyers and weapon consultants, and bought cheaper weapons instead from America. She stopped appeasing Brezhnev's Russia after he invaded Afghanistan on Christmas Day 1979 in a surprise attack, and she published the civil defence handbook *Protect and Survive* in May 1980, countering totalitarian ideology with a determination not to be intimidated by the threat of new Soviet SS-18 nuclear missile deployments. She proved she had the courage to fight by defeating the fascist militants of Argentina when they invaded the Falkland Islands. She reformed Labour's

policy of détente and shaking the hands of fascists, into a radical new military policy called victory. She achieved victory from the European Union too, winning our rebate.

She also defeated in elections the nuclear disarms Michael Foot in 1983 and Neil Kinnock in 1987. But she also had gimmicky political statements, like: "The problem with socialism is that eventually you run out of other people's money." Her wicked excuse for capitalism over socialism, in her final Commons debate as Prime Minister, was that the equalization of wealth using taxation makes *everyone* poor and demotivated, while capitalism makes *everyone* better off, including the poorest. What a hateful, loathsome, divisive, warrior-like iron lady she was (but a great leader when facing terrible situations), just like Winston Churchill, who also posed with a machine gun when threatened by dictatorship:



"We were flirting with national bankruptcy after years of socialist maladministration. But someone had discovered huge resources of oil and gas ... we had to oppose and overrule the usual Jeremiahs who said it could not be done and even if it could it would pollute the oceans. They chanted, they demonstrated, they plastered their smug, stupid, holier-than-thou faces all over our newspapers and TV screens. ... Once again, after years of socialism, we have flirted with bankruptcy over these past four years. Now I don't know whether there is some divinity or just benign fate watching over this old land of ours but it has happened again. ... And the Luddites are back, the same dim bigots who said not a word when forests of damaging, life-wrecking, landscape destroying windmills were plastered over every horizon to produce minuscule energy at unaffordable prices. Our screens are filled with the same smug, angry, self-righteous faces that I have been seeing for 60 years supporting one anti-British cause after another. ... Methane does not come out of your kitchen tap; that has been proved to be an invention. The water tables are not poisoned; the drills go down through the aquifers in sealed tubes and the released gas would come up the same way. As for the earth tremors, there are about 2,000 a year in this country. Humans can detect about 200; the rest only a sensitive seismometer can register." - <http://www.express.co.uk/comment/columnists/frederick-forsyth/425596/Fracking-could-be-our-next-salvation>

posted by nige @ 12:30 pm



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16 COMMENTS:

At 10:55 pm,  nige said...

Source of JFK's "Why England Slept" book photo, inscribed in pencil with the words "is STILL sleeping" (by Kennedy on front cover) is:  
<http://www.dailymail.co.uk/news/article-2519326/Signed-copy-JFK-book-Why-England-Slept-meant-present-Queen-Elizabeth-assassination-hammer.html> :

"A signed copy of a book by assassinated US president John F Kennedy, said to be intended as a gift to the Queen, is to go under the hammer.

"The copy of Why England Slept, by John F Kennedy, which bears the dedication: 'To Elizabeth (II) with affection John F Kennedy' and the quote 'we must not fear to negotiate', is being sold online on auction site Picollecta.com.

"Kennedy was president of the United States from 1961 until he was assassinated in Dallas, Texas on November 22, 1963 - nearly exactly 50 years ago."

At 10:58 pm,  nige said...

The source for the BBC radio broadcast speech by Prime Minister Neville Chamberlain, appeasing the Nazis, is <http://www.historyguide.org/europe/munich.html> . The full speech reads:

First of all I must say something to those who have written to my wife or myself in these last weeks to tell us of their gratitude for my efforts and to assure us of their prayers for my success. Most of these letters have come from women -- mothers or sisters of our own countrymen. But there are countless others besides -- from France, from Belgium, from Italy, even from Germany, and it has been heartbreaking to read of the growing anxiety they reveal and their intense relief when they thought, too soon, that the danger of war was past.

If I felt my responsibility heavy before, to read such letters has made it seem almost overwhelming. How horrible, fantastic, incredible it is that we should be digging trenches and trying on gas masks here because of a quarrel in a far-away country between people of whom we know nothing. It seems still more impossible that a quarrel which has already been settled in principle should be the subject of war.

I can well understand the reasons why the Czech Government have felt unable to accept the terms which have been put before them in the German memorandum. Yet I believe after my talks with Herr Hitler that, if only time were allowed, it ought to be possible for the arrangements for transferring the territory that the Czech Government has agreed to give to Germany to be settled by agreement under conditions which would assure fair treatment to the population concerned. . . .

However much we may sympathize with a small nation confronted by a big and powerful neighbor, we cannot in all circumstances undertake to involve the whole British Empire in war simply on her account. If we have to fight it must be on larger issues than that. I am myself a man of peace to the depths of my soul. Armed conflict between nations is a nightmare to me; but if I were convinced that any nation had made up its mind to dominate the world by fear of its force, I should feel that it must be resisted. Under such a domination life for people who believe in liberty would not be worth living; but war is a fearful thing, and we must be very clear, before we embark upon it, that it is really the great issues that are at stake, and that the call to risk everything in their defense, when all the consequences are weighed, is irresistible.

For the present I ask you to await as calmly as you can the events of the next few days. As long as war has not begun, there is always hope that it may be prevented, and you know that I am going to work for peace to the last moment. Good night.

**At 2:20 pm,  nige said...**

For more information on Britain Foreign Secretary Edward Grey's 1914 hesitancy in dealing with the Kaiser's move on Belgium, see:

[http://tim-slater.blogspot.co.uk/2011/05/why-did-great-britain-go-to-war-in\\_29.html](http://tim-slater.blogspot.co.uk/2011/05/why-did-great-britain-go-to-war-in_29.html)

"By 1914 Britain had shifted from isolation to continental engagement through a process of détente with her 19th century imperial rivals France and Russia. The naval arms race with Germany had been won by Britain and both countries knew it. Relations with Germany had improved, both countries had worked together to settle the 1912/13 Balkan crises ... To many in Britain the July crisis when it came was just another Balkan crisis that should be handled like the previous ones.

"By the 27 July 1914 Grey realized that his earlier strategy of working with Germany would fail. Germany, aware of Russia's growing strength and knowing that she would not back down the way she had in 1908, had no intention of restraining Austro-Hungary. Grey had never properly outlined the reasons behind Britain's switch to Continental engagement, or the possible cost, to the majority of his cabinet colleagues. At a cabinet meeting on 29 July 1914 this resulted in an overwhelming majority of members opposing Grey's proposed promise of support for France, only the Liberal Imperialist trio and Churchill were convinced that Britain would have to intervene on the side of France. Grey believed that although no treaty had been signed support for France had become a matter of honor. In cabinet on the 2 August he stated; '**We have led France to rely upon us and unless we support her in her agony I cannot continue at the Foreign Office.**' George, Lord Riddel, *War diary*, London, 1933, p. 6, 2 August 1914. Quoted in: Bentley B. Gilbert, 'Pacifist to Interventionist: David Lloyd George in 1911 and 1914. Was Belgium an Issue?', *The Historical Journal*, Vol. 28, No. 4 (Dec., 1985), p. 880

"Between the 30 July and 4 August 1914 the Liberal Cabinet walked a tightrope of indecision, unwilling to face the final question, the question that would have split the cabinet and handed power to a pro-war Conservative party. Ultimately it was the violation of Belgium neutrality that provided the umbrella under which the cabinet dissenters could make their moral choice to 'tow the line' and retain the integrity of the government. On 4 August 1914 Britain stumbled into war with Germany. In August 1914 the Cabinet had been free to make the choice between peace and war. It was the perceived need to protect Britain's Imperial position and interests against German European hegemony that had tipped the decision in favor of war."

- [http://dl.dropboxusercontent.com/u/17034496/Why\\_Britain\\_went\\_to\\_War\\_1914.pdf](http://dl.dropboxusercontent.com/u/17034496/Why_Britain_went_to_War_1914.pdf)

**At 2:40 pm,  nige said...**

Just a quick comment on Churchill's limitations (5 March 2014):

Winston Churchill's finger is firmly lodged in every major pie and pickle. While a fan of Churchill's writings, pithy quotes and speeches, it is strongly inadvisable to hero worship anyone, even someone like Winston Churchill. Partly because he wrote popular histories of his own significant role in WWI (*The World Crisis*, 1929) and WWII (*The Second World War*, published 1949) which are biased and - though fluent - exclude vital information. You find that Churchill's first volume on the Second World War simply copied - *word for word* - Sir Harold Nicolson's "Why Britain is at War" (1939) account of *Mein Kampf* (direct plagiarization).

This is almost certainly due to Churchill employing a team of junior history lecturers to prepare the first drafts for the history, before editing them together into the six volumes of books, himself in his advancing years (writing a major book, with all the research entailed, is no easy work). But it throws up serious concerns. Did Churchill actually read *Mein Kampf*, and if so, when and which edition (Hitler ensured the English language edition omitted passages which would have caused alarm in England!).

In addition, Churchill failed to prevent WWI by his backing of the costly Dreadnought battleships during the naval arms race with Germany which Britain won, but he neglected German submarines which caused a major crisis during the protracted war itself; the German subs sank cargo ships and munitions ships and could have cost the war.

Churchill's admiralty term in WWI was a disaster for another reason; in 1919 he failed - despite trying - to get money for a British effort to stop Lenin's Bolsheviks from founding the USSR (later leading to the cold war); and in the 1930s he tried and failed to get Hitler stopped before the Third Reich was powerful enough to defeat the British Army (it wasn't that powerful in 1935).

So Churchill's oratory and writing skills were not as powerful and convincing as he himself wanted. He was usually only taken seriously in a "told you so" manner after his preventative warnings had been ignored, with full scale disaster. Still, better late than never.

**At 10:19 pm,  nige said...**

I've had complaints that Dr Charles Sanders's book (published by Springer, 2010) "Radiation Hormesis and the Linear No-Threshold Assumption", has been removed from the

There is a briefer PDF of the introduction to the book (which has some data and gives a flavor at least) here:

[http://www.technofunda.in/spi/IN/Spriger\\_FM\\_BM/Batch-2/28-Sep-2010/978-3-642-03720-7/978-3-642-03720-7\\_BookFrontMatter\\_1.pdf](http://www.technofunda.in/spi/IN/Spriger_FM_BM/Batch-2/28-Sep-2010/978-3-642-03720-7/978-3-642-03720-7_BookFrontMatter_1.pdf)

On page v, Sanders begins by stating factually:

"Outrageous, unsubstantiated statements are made concerning the hazards of ionizing radiation, in spite of a vast published, peer-reviewed literature on molecular, cellular, animal, and epidemiological studies indicating not harm but benefit from low-dose ionizing radiation. Claims that as many as a million children across Europe and Asia may have died in the womb as a result of radioactive fallout from Chernobyl or claims that the health impacts of low levels of internal radiation are underestimated by between 100 and 1,000 times are common among antinuclear arguments."

**At 10:26 pm,  nige said...**

... The result of this deception is not insignificant: literally millions of lives are less healthy because they have been convinced that living in radiation deficient environments is healthy; lives are lost in not implementing effective low-dose radiation therapy to treat cancer; lives are lost out of fear of diagnostic radiation that saves lives; painful lives of people suffering from chronic inflammatory diseases are not improved by low-dose radiation therapy, which is given without the cost and side-effects of drugs and pain killers. Then there are the annual billions of dollars spent needlessly to protect us from radiation that we need for optimal health. Radiophobia limits the political will of people and governments to promote clean and safe nuclear power in place of traditional highly polluting fossil fuel power sources. Radiophobia prevents the logical and safe burial of nuclear wastes. Radiophobia causes serious psychological effects leading to loss of life (>100,000 abortions and >1,000 suicides attributed to Chernobyl fallout)."

- Sanders, page v, [http://www.technofunda.in/spi/IN/Spriger\\_FM\\_BM/Batch-2/28-Sep-2010/978-3-642-03720-7/978-3-642-03720-7\\_BookFrontMatter\\_1.pdf](http://www.technofunda.in/spi/IN/Spriger_FM_BM/Batch-2/28-Sep-2010/978-3-642-03720-7/978-3-642-03720-7_BookFrontMatter_1.pdf)

**At 10:35 pm,  nige said...**

Dr Charles Sanders' 2010 book, Radiation Hormesis and the Linear No-Threshold Assumption, is an excellent compilation of valuable information, and is currently the best researched book on the subject of radiation threshold cancer doses. Hormesis is the benefit of reduced cancer and genetic defects from the radiation-induced stimulation of P53 by the removal of its MDM2 inhibitor. The author has done a good but incomplete literature survey, and the book is particularly useful as a summary of the author's own research and related areas. It fails in not going far enough in the literature research for both the history of the deliberate radiation effects research, and the DNA repair enzyme system research. Namely, it fails to reformulate Health Physics on the basis of dose rate limits, rather than dose limits. For example, the effect of dose rate is responsible for the fact that the threshold dose recently proved for bone cancer after the Hiroshima and Nagasaki nuclear explosions in Japan is much smaller than the very large threshold dose found by Rowlands for bone cancer in the radium dial painters.

Therefore, a dose rate threshold exists for bone cancer. Therefore, dose limits must be abandoned and replaced by dose rate limits. In all cases, radiation cancer can be avoided if the dose rate is kept to 0.1 mSv/hour (10 mR/hour) or less, a threshold equal to 1,000 times the natural background radiation level in London. Only when this dose rate is exceeded, is there any net risk of cancer due to radiation, and even then the risk is not merely dependent upon the dose, but is sensitive to the dose rate. The history of the dose rate discovery is reviewed, the political reasons for fanatical pseudoscientific censorship of this fact are given, and suggestions are made towards improving public education of cancer prevention.

My approach to educating the public is the freely available compilation of research paper extracts linked here:

<https://archive.org/stream/RadiationScareMongeringDebunked/Radiation%20scare%20mongering%20debunked#page/n0/mode/2up>

And no, I don't expect Dr Professor Smart Alex to recommend me for a prize for compiling this data. I expect instead sneers, personal abuse etc. That way, you don't feel disappointed and you can face the challenges of life without getting depressed by idiots.

**At 10:39 pm,  nige said...**

My freely available on line PDF compilation of declassified UK War Plans:

<https://archive.org/stream/WarPlanUK/War%20Plan%20UK#page/n0/mode/2up>

I just hope that nobody ever has a reason to find this information "useful" (in a survival context). But "better safe than sorry".

At 11:22 pm,  nige said...

#### WHY SANCTIONS ARE DANGEROUS

When Japan invaded Vietnam (then called "Indochina") in 1940, America's President Roosevelt applied sanctions to stop Japan buying American oil.

Did this "peaceful pressure" force Japan to conform to peaceful intents and purposes? Did it hell. Instead, it provoked the opposite: the secret preparation for the surprise attack of December 7, 1941, on the American Pacific Fleet in Pearl Harbor, on the island of Oahu, Hawaii.

Lesson? Work it out yourself!

Second, sanctions of food etc were tried and failed with people like Saddam; all they did was to make the poor people suffer, while the rich leadership's propaganda machine milked the sanctions and economic suffering of the poor as "evidence" of the "inhumanity of America or England". Sanctions are not very effective, and they are not - remember Pearl Harbor - a "guaranteed alternative to war." They helped start off war in the Pacific Theatre, WWII.

Reagan's approach to diplomacy during the 1980s, namely civil defense and ABM or "Star Wars", is a better option to bring Russia to its senses, if we can afford the cost now.

At 1:08 pm,  nige said...

I should add that Edward Grey, Britain's Foreign Secretary in 1914, had never even visited Germany in his life!

His bungling secret deals with Germany were done without even the supervision or recording of his Civil Service Permanent Secretary!

Grey did all this (failed) appeasement by meeting the German Ambassador to London subversively at cricket matches and in bungled, confused telephone calls made from an open telephone in the office hallway, not from his office.

Part of the problem for Grey was that Britain had made a naval agreement with France to save money in the "arms race" by cutting back the expenditure on "Dreadnaught" type super British Naval destroyers.

Instead of being allowed enough cash to buy enough Dreadnaughts to patrol both the Mediterranean and the English Channel, Winston Churchill had been forced into cheapskating on defense by the Treasury.

Churchill therefore had to make a secret pact (which Germany knew nothing about!) with France to promise to keep French Naval territory safe, in exchange for France keeping British territory in the Mediterranean safe!

Therefore, Grey was desperate to get Germany to agree to not invade France, because that would effectively force Britain to declare war on Germany, in order to stick to the secret treaty with France to protect France's ports!

You really can't make this stuff up.

At 5:35 pm,  nige said...

#### NUCLEAR DETONATIONS IN URBAN AND SUBURBAN AREAS (Overview/summary article on the Internet Archive)

"At no time did Hitler threaten to initiate war against France and England. He simply threatened to 'retaliate' ... The technique he used is such an obvious prototype for a future aggressor armed with H-bombs that it is of extreme value to all who are concerned with the problem of maintaining a peaceful and secure world ..."

– Herman Kahn, *On Thermonuclear War*, Princeton University press, 1960, p. 403.

At 2:39 pm,  nige said...

Leo McKinstry, Daily Express, 13 March 2014, page 12:

"...Ed Miliband constantly trumpets his commitment to "nation" politics. Tragically that nation is not ours. It is the European Union's federal superstate. ... Miliband does not

trust the British public. ... Whenever he is about to release a torrent of verbiage Miliband always proclaims that he wants to make his position "perfectly clear". His speech yesterday had all the clarity of a fog ... he probably would not offer a referendum on Britain's membership of the EU but then again he might if circumstances changed, though such a vote was not a good idea ... he has to disguise his real intentions with a deluge of circumlocutions. But all the hollow, contradictory words cannot hide the fact that Miliband has no intention of giving us a vote on Britain's membership of the European Union. ... Contrary to what Miliband says the transfer of influence is happening all the time ... At the entrance to EU Parliament's visitors' centre there's a slogan: "National sovereignty is the root cause of the most crying evils of our times. The only final remedy for this supreme and catastrophic evil is the federal union of the peoples." ... He said that a referendum could undermine our prosperity by breeding uncertainty. Well, that is an argument for never holding any elections at all ... a recent poll of 1,000 business leaders found that 66 per cent of them supported a referendum, while just 26 per cent were opposed. ... The dole queues of Spain and riots in Athens are a graphic symbols of the terrible failure of Brussels' economic policies ... Miliband is a defeatist [no he is not simply a defeatist; he is a deliberate calculated liar like the communists in CND during the Cold War who attacked civil defence to ensure millions would die without reason if the Russia attacked]. He thinks Britain can only survive by surrendering to Brussels. This political cowardice is dressed up with fashionable talk ... A truly self-confident nation, eager to engage with the rest of the world, would laugh at the idea of being governed by such creatures as the former Portuguese Maoist Jose Manuel Barroso and Belgian nonentity Herman Van Rompuy." [If only that were true; in fact as we all know, the British military, Labour and Conservatives Parties all love the European Union because they want a life of hatred and war, and the European Union is a propaganda lobby for breeding racial hatred, dictatorship and war. Godwin's Law is being used to protect the New Nazis of European Dictatorship, eugenics, pseudoscience, war, cancer and hatred.]

- [http://www.express.co.uk/comment/columnists/leo-mckinstry/464544/Ed-Miliband-shows-he-doesn't-trust-the-British-public](http://www.express.co.uk/comment/columnists/leo-mckinstry/464544/Ed-Miliband-shows-he-doesn-t-trust-the-British-public)

At 2:04 pm,  **nige** said...

The possibility and hope of 1000 years of the British Empire was referred to by Prime Minister Winston Churchill, in the House of Commons on 18 June 1940:

"However matters may go in France or with the French Government or with another French Government, we in this island and in the British Empire will never lose our sense of comradeship with the French people. If we are now called upon to endure what they have suffered we shall emulate their courage, and if final victory rewards our toils they shall share the gains, aye. And freedom shall be restored to all. We abate nothing of our just demands—Czechs, Poles, Norwegians, Dutch, Belgians, all who have joined their causes to our own shall be restored.

"What General Weygand has called the Battle of France is over. I expect that the Battle of Britain is about to begin. Upon this battle depends the survival of Christian civilisation. Upon it depends our own British life, and the long continuity of our institutions and our Empire. The whole fury and might of the enemy must very soon be turned on us. Hitler knows that he will have to break us in this island or lose the war. If we can stand up to him, all Europe may be freed and the life of the world may move forward into broad, sunlit uplands.

"But if we fail, then the whole world, including the United States, including all that we have known and cared for, will sink into the abyss of a new dark age made more sinister, and perhaps more protracted, by the lights of perverted science. Let us therefore brace ourselves to our duties, and so bear ourselves, that if the British Empire and its Commonwealth last for a thousand years, men will still say, This was their finest hour."

Just quoting history!

At 11:20 am,  **Anonymous** said...

You bastards. Have you even considered the possibility that Britain will start off WWIII, not Russia? It could blow up the Russian base at Sevastopol using a nuclear weapon in a ship, like your example "Operation Hurricane". You think of civil defense against the peace loving President Putin, but what if bad guys in your country plant a bomb by computer-guided torpedo in the port of Sevastopol in the Crimea and blow up the Russian forces, then deny all knowledge of it?

Your beloved "Daily Express" newspaper reports that the Royal Navy "accidentally" launched a nuclear torpedo on Friday 14 March 2014,  
<http://www.express.co.uk/news/uk/464945/Oops-Royal-Navy-warship-accidentally-fires-TORPEDO-at-NUCLEAR-dockyard-in-Plymouth>:

"Oops! Royal Navy warship accidentally fires TORPEDO at NUCLEAR dockyard

"A BLUNDERING Royal Navy warship has accidentally fired a TORPEDO at a nuclear dockyard."

Or was the Royal Navy trying out the use of torpedoes to destroy the Russian Naval base dockyard at Sevastopol in the Crimea, then covering up the test as "accidental"?

At 2:29 pm,  **Anonymous** said...

You are a miserable little git. Civil defence by Britain is no help to us now because we must have a war.

You just do not understand the political consequences of the violation of the 1994 Budapest Memorandum, signed by Russia, America and Britain, which offers security to

Ukraine including its Crimean part, if invaded, in exchange for Ukraine signing the Nuclear Non-Proliferation Treaty.

If America and Britain refuse to go to the military assistance of Ukraine, that immediately cancels all of the similar guarantees they have given to all other non-nuclear countries.

Those treaties will now be worth less than the paper they are written on.

All other non-nuclear countries in the world will know for sure that America and Britain lack the balls to honor their defense treaties.

As a result, they will have to quit the Nuclear Non-Proliferation Treaty and develop their own deterrence, because they can expect no defense from the West.

To repeat, this is not just a crisis about Crimea.

This is a crisis affecting the security of every country which has ever been given a defense agreement by America and Britain in exchange for signing the Nuclear Non-Proliferation Treaty.

Her divine supreme highness Baroness Cathy Ashton has sown the seeds for the widespread proliferation of nuclear weapons, because of the fear which will result from the failure of America and Britain to go to the defense of the Ukraine.

At 4:05 pm,  nige said...

Anonymous:

We should not have ANY agreements to start WWIII by going to the defence of Belgium (WWI, and now WWIII Brussels European Union EUSSR headquarters), Poland (WWII, the Cold War), or Ukraine. Little corrupt regimes that save money on defence at our expense should save up some money to buy ABM, civil defence, and military deterrents/defence, or lose their independence. Britain has been fending off attacks and surviving raids and air raids since last successfully invaded by the Normans in October 1066, so Britain has a bit more experience of the costs of independence, freedom and economic security, I feel, than America or Ukraine.

I'm not a huge fan of this "British Imperialism" crap, where Britain had to defend worthless little countries at the cost of tens of millions of (mostly) innocent human lives.

Grow up or get lost, if you please! If Ukraine had its own nuclear weapons, it could deter Russia or defend itself in war without sucking in the rest of the world, which is debt-ridden by socialist/Marxist/communist thugs and "do gooders" who believe - just like Hitler and Stalin and Saddam and Gaddafi and Milliband and brown and Clegg - that if you brainwash yourself that you have a moral objective, any evil you do is beyond reproach.

We need civil defence in case a loon presses a button. Got it?

As for nuclear disarmament, we need:

1. ABM to take off the incentive and certainty of the success of an enemy surprise missile/aircraft attack.
2. Nuclear attack warning "duck and cover" civil defence **air raid sirens which Britain maintained until nutter Prime Minister John (not so) Major abolished them in 1992 to save tuppence** or appease dictators. (Not even the loony left abolished those air raid warning sirens when they closed down the UK Civil Defence Corps in 1968 after lying "ridicule" by nuclear weapons effects get-rich-quick quacks in the BBC, particularly Sir David Frost's evil "megaton range" satire of civil defence.)
3. Neutron bombs to **deter** local invasions by massed tanks (where hand-held anti-tank rockets are simply outnumbered by a vast factor, as in the days of the 1970s and 1980s Warsaw Pact).
4. More nuclear weapons in the hands of stable democracies than in the hands of unstable corrupt nutters. (I.e., less "communist equality" of the numbers of nuclear weapons, regardless of the moral record of the regime.)
5. Peacekeeping and global love no by unilateral nuclear disarmament or communism, but instead by economically stable, successful, capitalist democracies (which have the balls to keep socialists/Marxists/warmongers/fascists out of power), as PROVED (unlike the DISPROVED peace through disarmament 1920s/1930s pacifism liars) by history by the sensible nuclear historian Dr Spencer Weart in his sensible book "Never at War: Why Democracies Will Not Fight One Another" (Yale University Press, 1998):

<https://www.hawaii.edu/powerkills/WEART.CHAP.HTM>

Have a nice day. Cheers.

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*Civil defense countermeasures, to be taken seriously by the population, require the publication of solid facts with the scientific evidence to support those facts against political propaganda to the contrary. Secrecy over the effects of nuclear weapons tests does not hinder plutonium and missile production by rogue states, but it does hinder civil defense countermeasures, by permitting lying political propaganda to go unopposed.*

Terrorists successfully prey on the vulnerable. The political spreading of lies concerning threats and the alleged 'impossibility' of all countermeasures, terrorizing the population in order to 'justify' supposedly pro-peace disarmament policies in the 1920s-1930s, resulted in the secret rearmament of fascist states which were terrorizing the Jews and others, eventually leading to World War II.

Lying exaggerations today about nuclear weapons effects:

(1) encourage terrorist states and other groups to secretly invest in such weapons to use either for political intimidation or for future use against countries which have no countermeasures, and

(2) falsely dismiss, in the eyes of the media and the public, cheap relatively effective countermeasures like civil defense and ABM.

Therefore, doom-mongering media lies *make us vulnerable to the proliferation threat today* in two ways, just as they led to both world wars:

(1) Exaggerations of offensive technology and a down-playing

of simple countermeasures such as trenches, encouraged belligerent states to start World War I in the false belief that modern technology implied overwhelming firepower which would terminate the war quickly on the basis of offensive preparedness: if the facts about simple trench countermeasures against shelling and machine guns during the American Civil War had been properly understood, it would have been recognised by Germany that a long war based on munitions production and logistics would be necessary, and war would have been seen to be likely to lead to German defeat against countries with larger overseas allies and colonies that could supply munitions and the other resources required to win a long war.

(2) Exaggerations of aerial bombardment technology after World War I led to disarmament 'supported by' false claims that it was impossible to have any defense against a perceived threat of instant annihilation from thousands of aircraft carrying gas and incendiary bombs, encouraging fascists to secretly rearm in order to successfully take advantage of the fear and vulnerability caused by this lying political disarmament propaganda.

Historically, it has been proved that having weapons is not enough to guarantee a reasonable measure of safety from terrorism and rogue states; countermeasures are also needed, both to make any deterrent credible and to negate or at least mitigate the effects of a terrorist attack. Some people who wear seatbelts die in car crashes; some people who are taken to hospital in ambulances, even in peace-time, die. Sometimes, lifebelts and lifeboats cannot

save lives at sea. This lack of a 100% success rate in saving lives doesn't disprove the value of everyday precautions or of hospitals and medicine. Hospitals don't lull motorists into a false sense of security, causing them to drive faster and cause more accidents. Like-minded 'arguments' against ABM and civil defense are similarly vacuous.

'As long as the threat from Iran persists, we will go forward with a missile system that is cost-effective and proven. If the Iranian threat is eliminated, we will have a stronger basis for security, and the driving force for missile-defense construction in Europe will be removed.'

- President Obama, Prague Castle, Czech Republic, 4 April 2009.

Before 9/11, Caspar Weinberger was quizzed by skeptical critics on the BBC News program *Talking Point*, Friday, May 4, 2001: Caspar Weinberger quizzed on new US Star Wars ABM plans:

'The [ABM] treaty was in 1972 ... The theory ... supporting the ABM treaty [which prohibits ABM, thus making nations vulnerable to terrorism] ... that it will prevent an arms race ... is perfect nonsense because we have had an arms race all the time we have had the ABM treaty, and we have seen the greatest increase in proliferation of nuclear weapons that we have ever had. ... So the ABM treaty preventing an arms race is total nonsense. ...

'You have to understand that without any defences whatever you are very vulnerable. **It is like saying we don't like chemical warfare - we don't like gas attacks - so we are going to give up and promise not to have any defences ever against them and that of course would mean then we are perfectly safe. ...**

'The Patriot was not a failure in the Gulf War - the Patriot was one of the things which defeated the Scud and in effect helped us win the Gulf War. One or two of the shots went astray but that is true of every weapon system that has ever been invented. ...

'The fact that a missile defence system wouldn't necessarily block a suitcase bomb is certainly not an argument for not proceeding with a missile defence when a missile that hits can wipe out hundreds of thousands of lives in a second. ...

'The curious thing about it is that missile defence is not an offensive weapon system - missile defence cannot kill anybody. Missile defence can help preserve and protect your people and our allies, and the idea that you are somehow endangering people by having a defence strikes me almost as absurd as saying you endanger people by having a gas mask in a gas attack. ....

'President Bush said that we were going ahead with the defensive system but we would make sure that nobody felt we had offensive intentions because we would accompany it by a unilateral reduction of our nuclear arsenal. It seems to me to be a rather clear statement that proceeding with the missile defence system would mean fewer arms of this kind.

'You have had your arms race all the time that the ABM treaty was in effect and now you have an enormous accumulation and increase of nuclear weapons and that was your arms race promoted by the ABM treaty. Now if you abolish the ABM treaty you are not going to get another arms race - *you have got the arms already there* - and if you accompany the missile defence construction with the unilateral reduction of our own nuclear arsenal then it seems to me you are finally getting some

kind of inducement to reduce these weapons.'

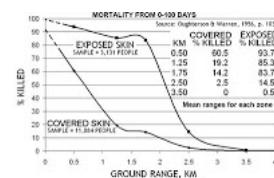
*Before the ABM system is in place, and afterwards if ABM fails to be 100% effective in an attack, or is bypassed by terrorists using a bomb in a suitcase or in a ship, civil defense is required and can be effective at saving lives:*

'Paradoxically, the more damaging the effect, that is the farther out its lethality stretches, the more can be done about it, because in the last fall of its power it covers vast areas, where small mitigations will save very large numbers of people.'

**- Peter Laurie, *Beneath the City Streets: A Private Inquiry into the Nuclear Preoccupations of Government*, Penguin, 1974.**

'The purpose of a book is to save people [the] time and effort digging things out for themselves. ... we have tried to leave the reader with something tangible – what a certain number of calories, roentgens, etc., means in terms of an effect on the human being. ... we must think of the people we are writing for.'

**- Dr Samuel Glasstone, DSc, letter dated 1 February 1957 to Colonel Dent L. Lay, Chief, Weapons Effects Division, U.S. Armed Forces Special Weapons Project, Washington, D.C., pages 2 and 4, concerning the preparation of *The Effects of Nuclear Weapons*.**



Glasstone and Dolan stated in *The Effects of Nuclear Weapons* (1977), Table 12.17 on page 546, that the median distance in Hiroshima for survival after 20 days was 0.12 miles for people in concrete buildings

and 1.3 miles for people standing outdoors. Therefore the median distances for survival in modern city buildings and in the open differed by a factor of 11 for Hiroshima; the difference in areas was thus a factor of 11<sup>2</sup> or about 120. Hence, taking cover in modern city buildings reduces the casualty rates and the risks of being killed by a factor of 120 for Hiroshima conditions, contrary to popular media presented political propaganda that civil defence is hopeless. This would reduce 120,000 casualties to 1,000 casualties.

From Dr Glasstone's *Effects of Nuclear Weapons* (1962/64 ed., page 631): 'At distances between 0.3 and 0.4 mile from ground zero in Hiroshima the average survival rate, for at least 20 days after the nuclear explosion, was less than 20 percent. Yet in two reinforced concrete office buildings, at these distances, almost 90 percent of the nearly 800 occupants survived more than 20 days, although some died later of radiation injury. Furthermore, of approximately 3,000 school students who were in the open and unshielded within a mile of ground zero at Hiroshima, about 90 percent were dead or missing after the explosion. But of nearly 5,000 students in the same zone who were shielded in one way or another, only 26 percent were fatalities. ... survival in Hiroshima was possible in buildings at such distances that the overpressure in the open was 15 to 20 pounds per square inch. ... it is evident ... that the area over which protection could be effective in saving lives is roughly eight to ten times as great as that in which the chances of survival are small.'

Lord Mayhew, House of Lords debate on Civil Defence

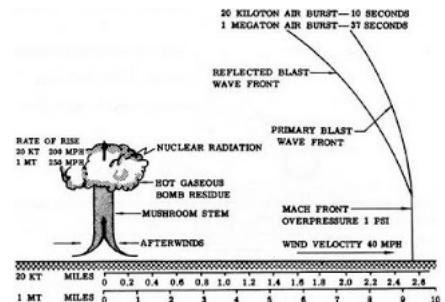
(General Local Authority Functions) Regulations, Hansard, vol. 444, cc. 523-49, 1 November 1983: '... if there had been effective civil defence at Hiroshima probably thousands of lives would have been saved and much human suffering would have been avoided. There is no question about it. ...'

Since the 1977 update by **Glasstone and Dolan**, extensive new updates to EM-1 for a further revised edition of *The Effects of Nuclear Weapons* have not actually been published with unlimited public distribution, due to President Carter's 1979 executive order which transferred responsibility for civil defense from the jurisdiction of the U.S. Department of Defense's Defense Civil Preparedness Agency to the new agency (which is not an Agency of the U.S. Department of Defense, and is not concerned with the analysis of nuclear weapons test effects data), the Federal Emergency Management Agency. However, the **February 1997 U.S. Department of Defense's Defense Special Weapons Agency 0602715H RDT&E Budget Item Justification Sheet (R-2 Exhibit)** states that a revision of **Glasstone and Dolan's unclassified *Effects of Nuclear Weapons* was budgeted for 1997-9:**

"FY 1997 Plans: ... Provide text to update Glasstone's book, *The Effects of Nuclear Weapons*, the standard reference for nuclear weapons effects. ... Update the unclassified textbook entitled, *The Effects of Nuclear Weapons*. ... Continue revision of Glasstone's book, *The Effects of Nuclear Weapons*, the standard reference for nuclear weapons effects. ... FY1999 Plans ... Disseminate updated *The Effects of Nuclear Weapons*."

The new publications are either

classified or unclassified with limited distribution restrictions (e.g., *Bridgman's Introduction to the Physics of Nuclear Weapons Effects*, which includes several chapters on nuclear weapons design to enable initial radiation outputs to be calculated precisely) which prevents up-to-date basic nuclear effects information to justify civil defense against the latest nuclear threats from being widely disseminated; the books are printed for use only by government agencies. The problem with this approach is that widespread public understanding of the best information for civil defense countermeasures is prevented.



'The evidence from Hiroshima indicates that blast survivors, both injured and uninjured, in buildings later consumed by fire [caused by the blast overturning charcoal braziers used for breakfast in inflammable wooden houses filled with easily ignitable bamboo furnishings and paper screens] were generally able to move to safe areas following the explosion. Of 130 major buildings studied by the U.S. Strategic Bombing Survey ... 107 were ultimately burned out ... Of those suffering fire, about 20 percent were burning after the first half hour. The remainder were consumed by fire spread, some as late as 15 hours after the blast. This situation is not unlike the one our computer-based fire spread model described for Detroit.'

- Defense Civil Preparedness

Agency, U.S. Department of Defense, *DCPA Attack Environment Manual, Chapter 3: What the Planner Needs to Know About Fire Ignition and Spread*, report CPG 2-1A3, June 1973, Panel 27.

'It is true that the Soviets have tested nuclear weapons of a yield higher than that which we thought necessary, but the 100-megaton bomb of which they spoke two years ago does not and will not change the balance of strategic power. The United States has chosen, deliberately, to concentrate on more mobile and more efficient weapons, with lower but entirely sufficient yield ...' - President John F. Kennedy in his television broadcast to the American public, 26 July 1963.

'During World War II many large cities in England, Germany, and Japan were subjected to terrific attacks by high-explosive and incendiary bombs. Yet, when proper steps had been taken for the protection of the civilian population and for the restoration of services after the bombing, there was little, if any, evidence of panic. It is the purpose of this book to state the facts concerning the atomic bomb, and to make an objective, scientific analysis of these facts. It is hoped that as a result, although it may not be feasible completely to allay fear, it will at least be possible to avoid panic.'

- Dr George Gamow (the big bang cosmologist), Dr Samuel Glasstone, DSc (Executive Editor of the book), and Professor Joseph O. Hirschfelder, *The Effects of Atomic Weapons*, Chapter 1, p. 1, Paragraph 1.3, U.S. Department of Defense, September 1950.

'The consequences of a multiweapon nuclear attack would certainly be grave ... Nevertheless, recovery should be possible if plans exist and are carried out to

restore social order and to mitigate the economic disruption.'

- **Philip J. Dolan**, editor of *Nuclear Weapons Employment* FM 101-31 (1963), *Capabilities of Nuclear Weapons* DNA-EM-1 (1972), and *The Effects of Nuclear Weapons* (1977), Stanford Research Institute, Appendix A of the **U.S. National Council on Radiological protection (NCRP) symposium *The Control of Exposure to the Public of Ionising Radiation in the Event of Accident or Attack*, 1981.**

'Suppose the bomb dropped on Hiroshima had been 1,000 times as powerful ... It could not have killed 1,000 times as many people, but at most the entire population of Hiroshima ... [regarding the hype about various nuclear "overkill" exaggerations] there is enough water in the oceans to drown everyone ten times.'

- **Professor Brian Martin, PhD** (physics), 'The global health effects of nuclear war', *Current Affairs Bulletin*, Vol. 59, No. 7, December 1982, pp. 14-26.

In 1996, half a century after the nuclear detonations, data on cancers from the Hiroshima and Nagasaki survivors was published by D. A. Pierce et al. of the Radiation Effects Research Foundation, RERF (*Radiation Research* vol. 146 pp. 1-27; *Science* vol. 272, pp. 632-3) for 86,572 survivors, of whom 60% had received bomb doses of over 5 mSv (or 500 millirem in old units) suffering 4,741 cancers of which only 420 were due to radiation, consisting of 85 leukemias and 335 solid cancers.

'Today we have a population of 2,383 [radium dial painter] cases for whom we have reliable body content measurements. . . . All 64 bone sarcoma [cancer] cases occurred in the 264 cases with more than 10 Gy [1,000 rads], while no sarcomas appeared in the 2,119 radium cases with less

than 10 Gy.'

- Dr Robert Rowland, Director of the Center for Human Radiobiology, *Bone Sarcoma in Humans Induced by Radium: A Threshold Response?*, Proceedings of the 27th Annual Meeting, European Society for Radiation Biology, Radioprotection colloquies, Vol. 32CI (1997), pp. 331-8.

Zbigniew Jaworowski, 'Radiation Risk and Ethics: Health Hazards, Prevention Costs, and Radiophobia', *Physics Today*, April 2000, pp. 89-90:

'... it is important to note that, given the effects of a few seconds of irradiation at Hiroshima and Nagasaki in 1945, a threshold near 200 mSv may be expected for leukemia and some solid tumors. [Sources: UNSCEAR, *Sources and Effects of Ionizing Radiation*, New York, 1994; W. F. Heidenreich, et al., *Radiat. Environ. Biophys.*, vol. 36 (1999), p. 205; and B. L. Cohen, *Radiat. Res.*, vol. 149 (1998), p. 525.] For a protracted lifetime natural exposure, a threshold may be set at a level of several thousand millisieverts for malignancies, of 10 grays for radium-226 in bones, and probably about 1.5-2.0 Gy for lung cancer after x-ray and gamma irradiation. [Sources: G. Jaikrishnan, et al., *Radiation Research*, vol. 152 (1999), p. S149 (for natural exposure); R. D. Evans, *Health Physics*, vol. 27 (1974), p. 497 (for radium-226); H. H. Rossi and M. Zaider, *Radiat. Environ. Biophys.*, vol. 36 (1997), p. 85 (for radiogenic lung cancer).] The hormetic effects, such as a decreased cancer incidence at low doses and increased longevity, may be used as a guide for estimating practical thresholds and for setting standards. ...

'Though about a hundred of the million daily spontaneous DNA damages per cell remain unrepaired or misrepaired,

apoptosis, differentiation, necrosis, cell cycle regulation, intercellular interactions, and the immune system remove about 99% of the altered cells. [Source: R. D. Stewart, *Radiation Research*, vol. 152 (1999), p. 101.]  
...

[Due to the Chernobyl nuclear accident in 1986] as of 1998 (according to UNSCEAR), a total of 1,791 thyroid cancers in children had been registered. About 93% of the youngsters have a prospect of full recovery. [Source: C. R. Moir and R. L. Telander, *Seminars in Pediatric Surgery*, vol. 3 (1994), p. 182.] ... The highest average thyroid doses in children (177 mGy) were accumulated in the Gomel region of Belarus. The highest incidence of thyroid cancer (17.9 cases per 100,000 children) occurred there in 1995, which means that the rate had increased by a factor of about 25 since 1987.

'This rate increase was probably a result of improved screening [not radiation!]. Even then, the incidence rate for occult thyroid cancers was still a thousand times lower than it was for occult thyroid cancers in nonexposed populations (in the US, for example, the rate is 13,000 per 100,000 persons, and in Finland it is 35,600 per 100,000 persons). Thus, given the prospect of improved diagnostics, there is an enormous potential for detecting yet more [fictitious] "excess" thyroid cancers. In a study in the US that was performed during the period of active screening in 1974-79, it was determined that the incidence rate of malignant and other thyroid nodules was greater by 21-fold than it had been in the pre-1974 period. [Source: Z. Jaworowski, *21st Century Science and Technology*, vol. 11 (1998), issue 1, p. 14.]'

W. L. Chen, Y. C. Luan, M. C. Shieh, S. T. Chen, H. T. Kung, K. L. Soong, Y. C. Yeh, T. S. Chou, S. H. Mong, J. T. Wu, C.

P. Sun, W. P. Deng, M. F. Wu, and M. L. Shen, 'Is Chronic Radiation an Effective Prophylaxis Against Cancer?', published in the *Journal of American Physicians and Surgeons*, Vol. 9, No. 1, Spring 2004, page 6, available in PDF format here:

'An extraordinary incident occurred 20 years ago in Taiwan. Recycled steel, accidentally contaminated with cobalt-60 ([low dose rate, gamma radiation emitter] half-life: 5.3 y), was formed into construction steel for more than 180 buildings, which 10,000 persons occupied for 9 to 20 years. They unknowingly received radiation doses that averaged 0.4 Sv, a collective dose of 4,000 person-Sv. Based on the observed seven cancer deaths, the cancer mortality rate for this population was assessed to be 3.5 per 100,000 person-years. Three children were born with congenital heart malformations, indicating a prevalence rate of 1.5 cases per 1,000 children under age 19.

'The average spontaneous cancer death rate in the general population of Taiwan over these 20 years is 116 persons per 100,000 person-years. Based upon partial official statistics and hospital experience, the prevalence rate of congenital malformation is 23 cases per 1,000 children. Assuming the age and income distributions of these persons are the same as for the general population, it appears that significant beneficial health effects may be associated with this chronic radiation exposure. ...'

'Professor **Edward Lewis** used data from four independent populations exposed to radiation to demonstrate that the incidence of leukemia was linearly related to the accumulated dose of radiation. ... Outspoken scientists, including Linus Pauling, used **Lewis's** risk estimate to inform the public about the danger of nuclear fallout by

estimating the number of leukemia deaths that would be caused by the test detonations. In May of 1957 **Lewis**'s analysis of the radiation-induced human leukemia data was published as a lead article in *Science* magazine. In June he presented it before the Joint Committee on Atomic Energy of the US Congress.' – Abstract of thesis by Jennifer Caron, **Edward Lewis** and *Radioactive Fallout: the Impact of Caltech Biologists Over Nuclear Weapons Testing in the 1950s and 60s*, Caltech, January 2003.

Dr John F. Loutit of the Medical Research Council, Harwell, England, in 1962 wrote a book called *Irradiation of Mice and Men* (University of Chicago Press, Chicago and London), discrediting the pseudo-science from geneticist **Edward Lewis** on pages 61, and 78-79:

'... Mole [R. H. Mole, *Brit. J. Radiol.*, v32, p497, 1959] gave different groups of mice an integrated total of 1,000 r of X-rays over a period of 4 weeks. But the dose-rate - and therefore the radiation-free time between fractions - was varied from 81 r/hour intermittently to 1.3 r/hour continuously. The incidence of leukemia varied from 40 per cent (within 15 months of the start of irradiation) in the first group to 5 per cent in the last compared with 2 per cent incidence in irradiated controls. ...

'What **Lewis** did, and which I have not copied, was to include in his table another group - spontaneous incidence of leukemia (Brooklyn, N.Y.) - who are taken to have received only natural background radiation throughout life at the very low dose-rate of 0.1-0.2 rad per year: the best estimate is listed as  $2 \times 10^{-6}$  like the others in the table. But the value of  $2 \times 10^{-6}$  was not calculated from the data as for the other groups; it was merely adopted. By its adoption and multiplication with the average age in years of Brooklyners - 33.7

years and radiation dose per year of 0.1-0.2 rad - a mortality rate of 7 to 13 cases per million per year due to background radiation was deduced, or some 10-20 per cent of the observed rate of 65 cases per million per year. ...

'All these points are very much against the basic hypothesis of **Lewis** of a linear relation of dose to leukemic effect irrespective of time. Unhappily it is not possible to claim for **Lewis's** work as others have done, "It is now possible to calculate - within narrow limits - how many deaths from leukemia will result in any population from an increase in fall-out or other source of radiation" [Leading article in *Science*, vol. 125, p. 963, 1957]. This is just wishful journalese.

'The burning questions to me are not what are the numbers of leukemia to be expected from atom bombs or radiotherapy, but what is to be expected from natural background .... Furthermore, to obtain estimates of these, I believe it is wrong to go to [1950s inaccurate, dose rate effect ignoring, data from] atom bombs, where the radiations are qualitatively different [i.e., including effects from neutrons] and, more important, the dose-rate outstandingly different.'

**Samuel Glasstone and Philip J. Dolan, *The Effects of Nuclear Weapons*, 3rd ed., 1977, pp. 611-3:**

'From the earlier studies of radiation-induced mutations, made with fruitflies [by Nobel Laureate Hermann J. Muller and other geneticists who worked on plants, who falsely hyped their insect and plant data as valid for mammals like humans during the June 1957 U.S. Congressional Hearings on fallout effects], it appeared that the number (or frequency) of mutations in a given population ... is proportional to the total dose ... More recent experiments with mice, however, have shown that

these conclusions need to be revised, at least for mammals. [Mammals are biologically closer to humans, in respect to DNA repair mechanisms, than short-lived insects whose life cycles are too small to have forced the evolutionary development of advanced DNA repair mechanisms, unlike mammals that need to survive for decades before reproducing.] When exposed to X-rays or gamma rays, the mutation frequency in these animals has been found to be dependent on the exposure (or dose) rate ...

'At an exposure rate of 0.009 roentgen per minute [0.54 R/hour], the total mutation frequency in female mice is indistinguishable from the spontaneous frequency. [Emphasis added.] There thus seems to be an exposure-rate threshold below which radiation-induced mutations are absent ... with adult female mice ... a delay of at least seven weeks between exposure to a substantial dose of radiation, either neutrons or gamma rays, and conception causes the mutation frequency in the offspring to drop almost to zero. ... recovery in the female members of the population would bring about a substantial reduction in the 'load' of mutations in subsequent generations.'

George Bernard Shaw cynically explains groupthink brainwashing bias:

'We cannot help it because we are so constituted that we always believe finally what we wish to believe. The moment we want to believe something, we suddenly see all the arguments for it and become blind to the arguments against it. The moment we want to disbelieve anything we have previously believed, we suddenly discover not only that there is a mass of evidence against, but that this evidence was staring us in the face all the time.'

From the essay titled 'What is Science?' by Professor Richard P. Feynman, presented at the fifteenth annual meeting of the National Science Teachers Association, 1966 in New York City, and published in *The Physics Teacher*, vol. 7, issue 6, 1968, pp. 313-20:

'... great religions are dissipated by following form without remembering the direct content of the teaching of the great leaders. In the same way, it is possible to follow form and call it science, but that is pseudo-science. In this way, we all suffer from the kind of tyranny we have today in the many institutions that have come under the influence of pseudoscientific advisers.

'We have many studies in teaching, for example, in which people make observations, make lists, do statistics, and so on, but these do not thereby become established science, established knowledge. They are merely an imitative form of science analogous to the South Sea Islanders' airfields - radio towers, etc., made out of wood. The islanders expect a great airplane to arrive. They even build wooden airplanes of the same shape as they see in the foreigners' airfields around them, but strangely enough, their wood planes do not fly. The result of this pseudoscientific imitation is to produce experts, which many of you are. ... you teachers, who are really teaching children at the bottom of the heap, can maybe doubt the experts. As a matter of fact, I can also define science another way: Science is the belief in the ignorance of experts.'

Richard P. Feynman, 'This Unscientific Age', in *The Meaning of It All*, Penguin Books, London, 1998, pages 106-9:

'Now, I say if a man is absolutely honest and wants to protect the populace from the effects of radioactivity, which is what our

scientific friends often say they are trying to do, then he should work on the biggest number, not on the smallest number, and he should try to point out that the [natural cosmic] radioactivity which is absorbed by living in the city of Denver is so much more serious [than the smaller doses from fallout pollution] ... that all the people of Denver ought to move to lower altitudes.'

Feynman is *not* making a point about low level radiation effects, but about the politics of ignoring the massive natural background radiation dose, while provoking hysteria over much smaller measured fallout pollution radiation doses. Why is the anti-nuclear lobby so concerned about banning nuclear energy - which is not possible even in principle since most of our nuclear radiation is from the sun and from supernova debris contaminating the Earth from the explosion that created the solar system circa 4,540 million years ago - when they could cause much bigger radiation dose reductions to the population by concentrating on the bigger radiation source, natural background radiation. It is possible to shield natural background radiation by the air, e.g. by moving the population of high altitude cities to lower altitudes where there is more air between the people and outer space, or banning the use of high-altitude jet aircraft. The anti-nuclear lobby, as Feynman stated back in the 1960s, didn't crusade to reduce the bigger dose from background radiation. Instead they chose to argue against the *much smaller* doses from fallout pollution. Feynman's argument is still today falsely interpreted as a political statement, when it is actually exposing pseudo-science and countering political propaganda. It is still ignored by the media. It has been pointed out by Senator Hickenlooper on page 1060 of the May-June 1957 U.S. Congressional Hearings before the Special Subcommittee on

Radiation of the Joint Committee  
on Atomic Energy, *The Nature of  
Radioactive Fallout and Its Effects  
on Man:*

'I presume all of us would  
earnestly hope that we never had  
to test atomic weapons ... but by  
the same token I presume that we  
want to save thousands of lives in  
this country every year and we  
could just abolish the manufacture  
of [road accident causing]  
automobiles ...'

Dihydrogen monoxide is a  
potentially very dangerous  
chemical containing hydrogen and  
oxygen which has caused  
numerous severe burns by  
scalding and deaths by drowning,  
contributes to the greenhouse  
effect, accelerates corrosion and  
rusting of many metals, and  
contributes to the erosion of our  
natural landscape: 'Dihydrogen  
monoxide (DHMO) is colorless,  
odorless, tasteless, and kills  
uncounted thousands of people  
every year. Most of these deaths  
are caused by accidental  
inhalation of DHMO, but the  
dangers of dihydrogen monoxide  
do not end there. Prolonged  
exposure to its solid form causes  
severe tissue damage. Symptoms  
of DHMO ingestion can include  
excessive sweating and urination,  
and possibly a bloated feeling,  
nausea, vomiting and body  
electrolyte imbalance. For those  
who have become dependent,  
DHMO withdrawal means certain  
death.'

From the site for the petition  
against dihydrogen monoxide:  
**'Please sign this petition and  
help stop This Invisible Killer.  
Get the government to do  
something now. ...  
Contamination Is Reaching  
Epidemic Proportions!  
Quantities of dihydrogen  
monoxide have been found in  
almost every stream, lake, and  
reservoir in America today. But  
the pollution is global, and the  
contaminant has even been  
found in Antarctic ice. DHMO**

has caused millions of dollars of property damage in the Midwest, and recently California.'

A recent example of the pseudoscientific radiation 'education' masquerading as science that Feynman (quoted above) objected to in the 1960s was published in 2009 in an article called 'The proportion of childhood leukaemia incidence in Great Britain that may be caused by natural background ionizing radiation' in *Leukemia*, vol. 23 (2009), pp. 770-776, which falsely asserts - in contradiction to the evidence that the no-threshold model is *contrary* to Hiroshima and Nagasaki data: 'Risk models based primarily on studies of the Japanese atomic bomb survivors imply that low-level exposure to ionizing radiation, including ubiquitous natural background radiation, also raises the risk of childhood leukaemia. Using two sets of recently published leukaemia risk models and estimates of natural background radiation red-bone-marrow doses received by children, about 20% of the cases of childhood leukaemia in Great Britain are predicted to be attributable to this source.' The authors of this pseudoscience which is the opposite of the facts are R. Wakeford (Dalton Nuclear Institute, University of Manchester, Manchester, UK), G. M. Kendall (Childhood Cancer Research Group, Oxford, UK), and M. P. Little (Department of Epidemiology and Public Health, Imperial College, London, UK). It is disgusting and sinful that the facts about childhood leukemia are being lied on so blatantly for non-scientific purposes, and it is to be hoped that these leukemia investigators will either correct their errors or alternatively be banned from using scientific literature to promote false dogma for

deception until they mend the error of their ways and repent their sins in this matter.

Protein P53, discovered only in 1979, is encoded by gene TP53, which occurs on human chromosome 17. P53 also occurs in other mammals including mice, rats and dogs. P53 is one of the proteins which continually repairs breaks in DNA, which easily breaks at body temperature: the DNA in each cell of the human body suffers at least two single strand breaks every second, and one double strand (i.e. complete double helix) DNA break occurs at least once every 2 hours (5% of radiation-induced DNA breaks are double strand breaks, while 0.007% of spontaneous DNA breaks at body temperature are double strand breaks)! Cancer occurs when several breaks in DNA happen to occur by chance at nearly the same time, giving several loose strand ends at once, which repair proteins like P53 then repair incorrectly, causing a mutation which can be proliferated somatically. This cannot occur when only one break occurs, because only two loose ends are produced, and P53 will reattach them correctly. But if low-LET ionising radiation levels are increased to a certain extent, causing more single strand breaks, P53 works faster and is able to deal with faster breaks as they occur, so that multiple broken strand ends do not arise. This prevents DNA strands being repaired incorrectly, and prevents cancer - a result of mutation caused by faults in DNA - from arising. Too much radiation of course overloads the P53 repair mechanism, and then it cannot repair breaks as they occur, so multiple breaks begin to appear and loose ends of DNA are wrongly connected by P53, causing an increased cancer risk.

1. DNA-damaging free radicals are equivalent to a source of sparks which is always present naturally.

2. Cancer is equivalent the fire you get if the sparks are allowed to ignite the gasoline, i.e. if the free radicals are allowed to damage DNA without the damage being repaired.

3. Protein P53 is equivalent to a fire suppression system which is constantly damping out the sparks, or repairing the damaged DNA so that cancer doesn't occur.

In this way of thinking, the 'cause' of cancer will be down to a failure of a DNA repairing enzyme like protein P53 to repair the damage.

Dr Jane Orient, 'Homeland Security for Physicians', *Journal of American Physicians and Surgeons*, vol. 11, number 3, Fall 2006, pp. 75-9:

'In the 1960s, a group of activist physicians called Physicians for Social Responsibility (PSR) undertook to "educate the medical profession and the world about the dangers of nuclear weapons," beginning with a series of articles in the *New England Journal of Medicine*. [Note that journal was publishing information for anti-civil defense propaganda back in 1949, e.g. the article in volume 241, pp. 647-53 of *New England Journal of Medicine* which falsely suggests that civil defense in nuclear war would be hopeless because a single burned patient in 1947 with 40% body area burns required 42 oxygen tanks, 36 pints of plasma, 40 pints of whole blood, 104 pints of fluids, 4,300 m of gauze, 3 nurses and 2 doctors. First, only unclothed persons in direct line of sight without shadowing can get 40% body area burns from thermal radiation, second, duck and cover offers protection in a nuclear attack warning, and G. V. LeRoy had already published, two years earlier, in *J.A.M.A.*, volume 134, 1947, pp. 1143-8, that less than 5% of burns in Hiroshima and Nagasaki were caused by

**building and debris fires.** In medicine it is always possible to expend vast resources on patients who are fatally injured. In a mass casualty situation, doctors should not give up just because they don't have unlimited resources; as at Hiroshima and Nagasaki, they would need to do their best with what they have.] On its website, [www.psr.org](http://www.psr.org), the group boasts that it "led the campaign to end atmospheric nuclear testing." With this campaign, the linear no-threshold (LNT) theory of radiation carcinogenesis became entrenched. It enabled activists to calculate enormous numbers of potential casualties by taking a tiny risk and multiplying it by the population of the earth. As an enduring consequence, the perceived risks of radiation are far out of proportion to actual risks, causing tremendous damage to the American nuclear industry. ... Efforts to save lives were not only futile, but unethical: Any suggestion that nuclear war could be survivable increased its likelihood and was thus tantamount to warmongering, PSR spokesmen warned. ...

'For the mindset that engendered and enables this situation, which jeopardizes the existence of the United States as a nation as well as the lives of millions of its citizens, some American physicians and certain prestigious medical organizations bear a heavy responsibility.

'Ethical physicians should stand ready to help patients to the best of their ability, and not advocate sacrificing them in the name of a political agenda. **Even very basic knowledge, especially combined with simple, inexpensive advance preparations, could save countless lives.'**

**Dr Theodore B. Taylor,**  
*Proceedings of the Second  
Interdisciplinary Conference on  
Selected Effects of a General*

War, DASIAc Special Report  
95, July 1969, vol. 2, DASA-  
2019-2, AD0696959, page 298  
(also linked here):

'I must just say that as far as I'm concerned I have had some doubts about whether we should have had a civil defense program in the past. I have no doubt whatsoever now, for this reason, that I've seen ways in which the deterrent forces can fail to hold things off, so that no matter what our national leaders do, criminal organizations, what have you, groups of people over which we have no control whatsoever, can threaten other groups of people.'

This point of Taylor is the key fact on the morality. Suppose we disarm and abandon nuclear power. That won't stop fallout from a war, terrorists, or a foreign reactor blast from coming. Civil defence knowledge is needed. Even when America has ABM, it will be vulnerable to wind carried fallout. No quantity of pacifist hot air will protect people against radiation.

Charles J. Hitch and Roland B. McKean of the RAND Corporation in their 1960 book *The Economics of Defense in the Nuclear Age*, Harvard University Press, Massachusetts, pp. 310-57:

'With each side possessing only a small striking force, a small amount of cheating would give one side dominance over the other, and the incentive to cheat and prepare a preventative attack would be strong ... With each side possessing, say, several thousand missiles, a vast amount of cheating would be necessary to give one side the ability to wipe out the other's striking capability. ... the more extensive a disarmament agreement is, the smaller the force that a violator would have to hide in order to achieve complete domination. Most obviously, "the abolition of

the weapons necessary in a general or 'unlimited' war" would offer the most insuperable obstacles to an inspection plan, since the violator could gain an overwhelming advantage from the concealment of even a few weapons.'

Disarmament after World War I caused the following problem which led to World War II (reported by Winston S. Churchill in the London Daily Express newspaper of November 1, 1934):

'Germany is arming secretly, illegally and rapidly. A reign of terror exists in Germany to keep secret the feverish and terrible preparations they are making.'

British Prime Minister Thatcher's address to the United Nations General Assembly on disarmament on 23 June 1982, where she pointed out that in the years since the nuclear attacks on Hiroshima and Nagasaki, 10 million people had been killed by 140 non-nuclear conflicts:

'The fundamental risk to peace is not the existence of weapons of particular types. It is the disposition on the part of some states to impose change on others by resorting to force against other nations ... Aggressors do not start wars because an adversary has built up his own strength. They start wars because they believe they can gain more by going to war than by remaining at peace.'

J. D. Culshaw, the then Director of the U.K. Home Office Scientific Advisory Branch, stated in his article in the Scientific Advisory Branch journal *Fission Fragments*, September 1972 (issue No. 19), classified 'Restricted':

'Apart from those who don't want to know or can't be bothered, there seem to be three major schools of thought about the nature of a possible Third World War ...

\* 'The first group think of

something like World War II but a little worse ...

\* '... the second of World War II but very much worse ...

\* 'and the third group think in terms of a catastrophe ...

'When the Armageddon concept is in favour, the suggestion that such problems exist leads to "way out" research on these phenomena, and it is sufficient to mention a new catastrophic threat [e.g., 10 years later this was done by Sagan with "nuclear winter" hype, which turned out to be fake because modern concrete cities can't produce firestorms like 1940s wooden-built areas of Hamburg, Dresden and Hiroshima] to stimulate research into the possibilities of it arising. The underlying appeal of this concept is that if one could show that the execution of all out nuclear, biological or chemical warfare would precipitate the end of the world, no one but a mad man would be prepared to initiate such a war. [However, as history proves, plenty of mad men end up gaining power and leading countries into wars.]'

J. K. S. Clayton, then Director of the U.K. Home Office Scientific Advisory Branch, stated in his introduction, entitled *The Challenge - Why Home Defence?*, to the 1977 Home Office Scientific Advisory Branch *Training Manual for Scientific Advisers*:

'Since 1945 we have had nine wars - in Korea, Malaysia and Vietnam, between China and India, China and Russia, India and Pakistan and between the Arabs and Israelis on three occasions. We have had confrontations between East and West over Berlin, Formosa and Cuba. There have been civil wars or rebellions in no less than eleven countries and invasions or threatened invasions of another five. Whilst it is not suggested that all these incidents could have resulted in major wars, they do indicate the

aptitude of mankind to resort to a forceful solution of its problems, sometimes with success. ...'

It is estimated that Mongol invaders exterminated 35 million Chinese between 1311-40, without modern weapons. Communist Chinese killed 26.3 million dissenters between 1949 and May 1965, according to detailed data compiled by the Russians on 7 April 1969. The Soviet communist dictatorship killed 40 million dissenters, mainly owners of small farms, between 1917-59. Conventional (non-nuclear) air raids on Japan killed 600,000 during World War II. The single incendiary air raid on Tokyo on 10 March 1945 killed 140,000 people (more than the total for nuclear bombs on Hiroshima and Nagasaki combined) at much less than the \$2 billion expense of the Hiroshima and Nagasaki nuclear bombs! Non-nuclear air raids on Germany during World War II killed 593,000 civilians.

House of Lords debate *Nuclear Weapons: Destructive Power*, published in Hansard, 14 June 1988:

Lord Hailsham of Saint Marylebone: 'My Lords, if we are going into the question of lethality of weapons and seek thereby to isolate the nuclear as distinct from the so-called conventional range, is there not a danger that the public may think that Vimy, Passchendaele and Dresden were all right—sort of tea parties—and that nuclear war is something which in itself is unacceptable?'

Lord Trefgarne: 'My Lords, the policy of making Europe, or the rest of the world, safe for conventional war is not one that I support.'

House of Commons debate *Civil Defence* published in Hansard, 26 October 1983:

Mr. Bill Walker (Tayside,

North): 'I remind the House that more people died at Stalingrad than at Hiroshima or Nagasaki. Yet people talk about fighting a conventional war in Europe as if it were acceptable. One rarely sees demonstrations by the so-called peace movement against a conventional war in Europe, but it could be nothing but ghastly and horrendous. The casualties would certainly exceed those at Stalingrad, and that cannot be acceptable to anyone who wants peace'

On 29 October 1982, Thatcher stated of the Berlin Wall: 'In every decade since the war the Soviet leaders have been reminded that their pitiless ideology only survives because it is maintained by force. But the day comes when the anger and frustration of the people is so great that force cannot contain it. Then the edifice cracks: the mortar crumbles ... one day, liberty will dawn on the other side of the wall.'

On 22 November 1990, she said: 'Today, we have a Europe ... where the threat to our security from the overwhelming conventional forces of the Warsaw Pact has been removed; where the Berlin Wall has been torn down and the Cold War is at an end. These immense changes did not come about by chance. They have been achieved by strength and resolution in defence, and by a refusal ever to be intimidated.'

'The case for civil defence stands regardless of whether a nuclear deterrent is necessary or not. ... Even if the U.K. were not itself at war, we would be as powerless to prevent fallout from a nuclear explosion crossing the sea as was King Canute to stop the tide.' - U.K. Home Office leaflet, Civil Defence, 1982.

'... peace cannot be guaranteed absolutely. Nobody can be certain, no matter what policies this or any other Government were

to adopt, that the United Kingdom would never again be attacked. Also we cannot tell what form such an attack might take. Current strategic thinking suggests that if war were to break out it would start with a period of conventional hostilities of uncertain duration which might or might not escalate to nuclear conflict. ... while nuclear weapons exist there must always be a chance, however small, that they will be used against us [like gas bombs in World War II]. ... as a consequence of war between other nations in which we were not involved fall out from nuclear explosions could fall on a neutral Britain. ... conventional war is not the soft option that is sometimes suggested. It is also too easily forgotten that in World War II some 50 million people died and that conventional weapons have gone on killing people ever since 1945 without respite.' - **The Minister of State, Scottish Office (Lord Gray of Contin), House of Lords debate on Civil Defence (General Local Authority Functions) Regulations, Hansard, vol. 444, cc. 523-49, 1 November 1983.**

'All of us are living in the light and warmth of a huge hydrogen bomb, 860,000 miles across and 93 million miles away, which is in a state of continuous explosion.' - Dr Isaac Asimov.

'Dr Edward Teller remarked recently that the origin of the earth was somewhat like the explosion of the atomic bomb...' – Dr Harold C. Urey, *The Planets: Their Origin and Development*, Yale University Press, New Haven, 1952, p. ix.

'But compared with a supernova a hydrogen bomb is the merest trifle. For a supernova is equal in violence to about a million million million hydrogen bombs all going off at the same time.' – Sir Fred Hoyle (1915-2001), *The Nature of the Universe*, Pelican Books, London, 1963, p. 75.

'In fact, physicists find plenty of interesting and novel physics in the environment of a nuclear explosion. Some of the physical phenomena are valuable objects of research, and promise to provide further understanding of nature.' – Dr Harold L. Brode, The RAND Corporation, 'Review of Nuclear Weapons Effects,' *Annual Review of Nuclear Science*, Volume 18, 1968, pp. 153-202.

'It seems that similarities do exist between the processes of formation of single particles from nuclear explosions and formation of the solar system from the debris of a [4 x 10<sup>28</sup> megatons of TNT equivalent, type Ia] supernova explosion. We may be able to learn much more about the origin of the earth, by further investigating the process of radioactive fallout from the nuclear weapons tests.' – **Dr Paul K.**

**Kuroda (1917-2001)**, University of Arkansas, 'Radioactive Fallout in Astronomical Settings: Plutonium-244 in the Early Environment of the Solar System,' pages 83-96 of *Radionuclides in the Environment: A Symposium Sponsored By the Division of Nuclear Chemistry and Technology At the 155th Meeting of the American Chemical Society, San Francisco, California, April 1-3, 1968*, edited by Symposium Chairman Dr Edward C. Freiling (1922-2000) of the U.S. Naval Radiological Defense Laboratory, Advances in Chemistry Series No. 93, American Chemical Society, Washington, D.C., 1970.

**Dr Paul K. Kuroda (1917-2001)** in 1956 correctly predicted the existence of water-moderated natural nuclear reactors in flooded uranium ore seams, which were discovered in 1972 by French physicist Francis Perrin in three ore deposits at Oklo in Gabon, where sixteen sites operated as natural nuclear reactors with self-sustaining nuclear fission 2,000 million years ago, each lasting several hundred thousand years,

averaging 100 kW. The radioactive waste they generated remained in situ for a period of 2,000,000,000 years without escaping. They were discovered during investigations into why the U-235 content of the uranium in the ore was only 0.7171% instead of the normal 0.7202%. Some of the ore, in the middle of the natural reactors, had a U-235 isotopic abundance of just 0.440%. Kuroda's brilliant paper is entitled, 'On the Nuclear Physical Stability of the Uranium Minerals', published in the *Journal of Chemical Physics*, vol. 25 (1956), pp. 781–782 and 1295–1296.

A type Ia supernova explosion, always yielding  $4 \times 10^{28}$  megatons of TNT equivalent, results from the critical mass effect of the collapse of a white dwarf as soon as its mass exceeds 1.4 solar masses due to matter falling in from a companion star. The degenerate electron gas in the white dwarf is then no longer able to support the pressure from the weight of gas, which collapses, thereby releasing enough gravitational potential energy as heat and pressure to cause the fusion of carbon and oxygen into heavy elements, creating massive amounts of radioactive nuclides, particularly intensely radioactive nickel-56, but half of all other nuclides (including uranium and heavier) are also produced by the 'R' (rapid) process of successive neutron captures by fusion products in supernovae explosions. Type Ia supernovae occur typically every 400 years in the Milky Way galaxy. On 4 July 1054, Chinese astronomers observed in the sky (without optical instruments) the bright supernova in the constellation Taurus which today is still visible as the Crab Nebula through telescopes. The Crab Nebula debris has a diameter now of 7 light years and is still expanding at 800 miles/second. The supernova debris shock wave triggers star formation when it encounters hydrogen gas in space

by compressing it and seeding it with debris; bright stars are observed in the Orion Halo, the 300 light year diameter remains of a supernova. It is estimated that when the solar system was forming 4,540 million years ago, a supernova occurred around 100 light years away, and the heavy radioactive debris shock wave expanded at 1,000 miles/second. Most of the heavy elements including iron, silicon and calcium in the Earth and people are the stable end products of originally radioactive decay chains from the space burst fallout of a  $7 \times 10^{26}$  megatons thermonuclear explosion, created by fusion and successive neutron captures after the implosion of a white dwarf, a supernova explosion.

How would a  $10^{55}$  megaton hydrogen bomb explosion differ from the **big bang**? Ignorant answers biased in favour of curved spacetime (ignoring quantum gravity!) abound, such as claims that explosions can't take place in 'outer space' (disagreeing with the facts from nuclear space bursts by Russia and America in 1962, not to mention natural supernova explosions in space!) and that explosions produce sound waves in air by definition! There are indeed major differences in the nuclear reactions between the big bang and a nuclear bomb. But it is helpful to notice the solid physical fact that implosion systems suggest the mechanism of gravitation: in implosion, TNT is well-known to produce an *inward* force on a bomb core, but Newton's 3rd law says there is an equal and opposite reaction force *outward*. In fact, you can't have a radially outward force without an inward reaction force! It's the rocket principle. The rocket accelerates (with force  $F = ma$ ) *forward* by virtue of the recoil from accelerating the exhaust gas (with force  $F = -ma$ ) in the *opposite* direction! Nothing massive accelerates without an equal and opposite reaction force. Applying

this fact to the measured  $6 \times 10^{-10} \text{ ms}^{-2} \sim Hc$  cosmological acceleration of matter radially outward from observers in the universe which was predicted accurately in 1996 and later observationally discovered in 1999 (by Perlmutter, et al.), we find an outward force  $F = ma$  and inward reaction force by the 3rd law. The inward force allows quantitative predictions, and is mediated by gravitons, predicting gravitation in a checkable way (unlike string theory, which is just a landscape of  $10^{500}$  different perturbative theories and so can't make any falsifiable predictions about gravity). So it seems as if nuclear explosions do indeed provide helpful analogies to natural features of the world, and the mainstream lambda-CDM model of cosmology - with its force-fitted unobserved *ad hoc* speculative 'dark energy' - ignores and sweeps under the rug major quantum gravity effects which increase the physical understanding of particle physics, particularly force unification and the relation of gravitation to the existing electroweak  $SU(2) \times U(1)$  section of the Standard Model of fundamental forces.

Richard Lieu, Physics Department, University of Alabama, 'Lambda-CDM cosmology: how much suppression of credible evidence, and does the model really lead its competitors, using all evidence?', <http://arxiv.org/abs/0705.2462>.

Even Einstein grasped the possibility that general relativity's lambda-CDM model is at best just a classical approximation to quantum field theory, at the end of his life when he wrote to Besso in 1954:

'I consider it quite possible that physics cannot be based on the [classical differential equation] field principle, i.e., on continuous structures. In that case, nothing

remains of my entire castle in the air, [non-quantum] gravitation theory included ...'

'Science is the organized skepticism in the reliability of expert opinion.' - Professor Richard P. Feynman (quoted by Professor Lee Smolin, *The Trouble with Physics*, Houghton-Mifflin, New York, 2006, p. 307).

'The expression of dissenting views may not seem like much of a threat to a powerful organization, yet sometimes it triggers an amazingly hostile response. The reason is that a single dissenter can puncture an illusion of unanimity. ... Among those suppressed have been the engineers who tried to point out problems with the Challenger space shuttle that caused it to blow up. More fundamentally, suppression is a denial of the open dialogue and debate that are the foundation of a free society. Even worse than the silencing of dissidents is the chilling effect such practices have on others. For every individual who speaks out, numerous others decide to play it safe and keep quiet. More serious than external censorship is the problem of self-censorship.'

— Professor Brian Martin,  
University of Wollongong,  
'Stamping Out Dissent',  
Newsweek, 26 April 1993, pp. 49-50

In 1896, Sir James Mackenzie-Davidson asked Wilhelm Röntgen, who discovered X-rays in 1895: 'What did you think?' Röntgen replied: 'I did not think, I investigated.' The reason? Cathode ray expert J. J. Thomson in 1894 saw glass fluorescence far from a tube, but due to prejudice (expert opinion) he avoided investigating that X-ray evidence! 'Science is the organized skepticism in the reliability of expert opinion.' - Richard Feynman, in Lee Smolin, *The Trouble with Physics*, Houghton-Mifflin, 2006, p. 307.

Mathematical symbols in this blog: your computer's browser needs access to standard character symbol sets to display Greek symbols for mathematical physics. If you don't have the symbol character sets installed, the density symbol 'ρ' (Rho) will appear as 'r' and the 'π' (Pi) symbol will as 'p', causing confusion with the use of 'r' for radius and 'p' for momentum in formulae. This problem exists with Mozilla Firefox 3, but not with Microsoft Explorer which displays Greek symbols.

## About Me



Name: nige

<http://nige.wordpress.com/>  
<http://quantumfieldtheory.org/>  
<http://www.math.columbia.edu/~woit/wordpress/?p=273#comment-5322>.  
<http://www.math.columbia.edu/~woit/wordpress/?p=353&cpage=1#comment-8728>.  
<http://www.math.columbia.edu/~woit/wordpress/?p=215#comment-4082>.

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From 1945-62, America tested 216 nuclear weapons in the atmosphere, totalling 154 megatons, with a mean yield of 713 kilotons

From 1949-62, Russia tested 214 nuclear weapons in the atmosphere, totalling 281 megatons, with a mean yield of 1.31 megatons

From 1952-8, Britain tested 21 nuclear weapons in the atmosphere, totalling 10.8 megatons, with a mean yield of 514 kilotons

From 1960-74, France tested 46 nuclear weapons in the atmosphere, totalling 11.4 megatons, with a mean yield of 248 kilotons

From 1964-80, China tested 23 nuclear weapons in the

atmosphere, totalling 21.5 megatons, with a mean yield of 935 kilotons

In summary, from 1945-80, America, Russia, Britain, France and China tested 520 nuclear weapons in the atmosphere, totalling 478.7 megatons, with a mean yield of 921 kilotons

Mean yield of the 5,192 nuclear warheads and bombs in the deployed Russian nuclear stockpile as of January 2009: 0.317 Mt. Total yield: 1,646 Mt.

Mean yield of the 4,552 nuclear warheads and bombs in the deployed U.S. nuclear stockpile as of January 2007: 0.257 Mt. Total yield: 1,172 Mt.

For diffraction damage where damage areas scale as the two-thirds power of explosive yield, this stockpile's area damage potential can be compared to the 20,000,000 conventional bombs of 100 kg size (2 megatons of TNT equivalent total energy) dropped on Germany during World War II: (Total nuclear bomb blast diffraction damaged ground area)/(Total conventional blast diffraction damaged ground area to Germany during World War II) =  $[4,552 * (0.257 \text{ Mt})^{2/3}] / [20,000,000 * (0.0000001 \text{ Mt})^{2/3}] = 1,840/431 = 4.3$ . Thus, although the entire U.S. stockpile has a TNT energy equivalent to 586 times that of the 2 megatons of conventional bombs dropped on Germany in World War II, it is only capable of causing 4.3 times as much diffraction type damage area, because any given amount of explosive energy is far more efficient when distributed over many small explosions than in a single large explosion! Large explosions are inefficient because they cause unintended collateral damage, wasting energy off the target area and injuring or damaging unintended targets!

In a controlled sample of 36,500

survivors, 89 people got leukemia over a 40 year period, above the number in the unexposed control group. (Data: *Radiation Research*, volume 146, 1996, pages 1-27.) Over 40 years, in 36,500 survivors monitored, there were 176 leukemia deaths which is 89 more than the control (unexposed) group got naturally. There were 4,687 other cancer deaths, but that was merely 339 above the number in the control (unexposed) group, so this is statistically a much smaller rise than the leukemia result. Natural leukemia rates, which are very low in any case, were increased by 51% in the irradiated survivors, but other cancers were merely increased by just 7%. Adding all the cancers together, the total was 4,863 cancers (virtually all natural cancer, nothing whatsoever to do with radiation), which is just 428 more than the unexposed control group. Hence, the total increase over the natural cancer rate due to bomb exposure was only 9%, spread over a period of 40 years. There was no increase whatsoever in genetic malformations.

**There should be a note here about how unnatural radioactive pollution is (not) in space: the earth's atmosphere is a radiation shield equivalent to being protected behind a layer of water 10 metres thick. This reduces the cosmic background radiation by a factor of 100 of what it would be without the earth's atmosphere. Away from the largely uninhabited poles, the Earth's magnetic field also protects us against charged cosmic radiations, which are deflected and end up spiralling around the magnetic field at high altitude, in the Van Allen trapped radiation belts. On the Moon, for example, there is no atmosphere or significant magnetic field so the natural background radiation exposure rate at solar minimum is 1 milliRoentgen per hour (about 10 microSieverts/hour) some**

*100 times that on the Earth (0.010 milliRoentgen per hour or about 0.10 microSieverts/hour). The Apollo astronauts visiting the Moon wore dosimeters and they received an average of 275 milliRoentgens (about 2.75 milliSieverts) of radiation (well over a year's exposure to natural background at sea level) in over just 19.5 days. It is a lot more than that during a solar flare, which is one of the concerns for astronauts to avoid (micrometeorites are another concern in a soft spacesuit).*

*The higher up you are above sea level, the less of the atmosphere there is between you and space, so the less shielding you have to protect you from the intense cosmic space radiations (emitted by thermonuclear reactors we call 'stars', as well as distant supernova explosions). At sea level, the air above you constitutes a radiation shield of 10 tons per square metre or the equivalent of having a 10 metres thick water shield between you and outer space. As you go up a mountain or up in an aircraft, the amount of atmosphere between you and space decreases, thus radiation levels increase with altitude because there is less shielding. The normal background radiation exposure rate shoots up by a factor of 20, from 0.010 to 0.20 milliRoentgens per hour, when any airplane ascends from sea level to 36,000 feet cruising altitude. (The now obsolete British Concorde supersonic transport used to maintain radiation-monitoring equipment so that it could drop to lower-altitude flight routes if excessive cosmic radiation due to solar storms were detected.) Flight aircrew get more radiation exposure than many nuclear industry workers at nuclear power plants. Residents of the high altitude city of Denver get 100*

milliRoentgens (about 1 milliSievert) more annual exposure than a resident of Washington, D.C., but the mainstream anti-radiation cranks don't campaign for the city to be shut to save kids radiation exposure, for mountain climbing to be banned, etc.!

1994 revised Introduction to Kearny's Nuclear War Survival Skills, by Dr Edward Teller, January 14, 1994:

'If defense is neglected these weapons of attack become effective. They become available and desirable in the eyes of an imperialist dictator, even if his means are limited. Weapons of mass destruction could become equalizers between nations big and small, highly developed and primitive, if defense is neglected. If defense is developed and if it is made available for general prevention of war, weapons of aggression will become less desirable. Thus defense makes war itself less probable. .... One psychological defense mechanism against danger is to forget about it. This attitude is as common as it is disastrous. It may turn a limited danger into a fatal difficulty.'

Advice of Robert Watson-Watt (Chief Scientist on the World War II British Radar Project, defending Britain against enemy attacks): 'Give them the third best to go on with, the second best comes too late, the best never comes.'

From Wikipedia (a source of groupthink): 'Groupthink is a type of thought exhibited by group members who try to minimize conflict and reach consensus without critically testing, analyzing, and evaluating ideas. Individual creativity, uniqueness, and independent thinking are lost in the pursuit of group cohesiveness, as are the advantages of reasonable

balance in choice and thought that might normally be obtained by making decisions as a group. During groupthink, members of the group avoid promoting viewpoints outside the comfort zone of consensus thinking. A variety of motives for this may exist such as a desire to avoid being seen as foolish, or a desire to avoid embarrassing or angering other members of the group. Groupthink may cause groups to make hasty, irrational decisions, where individual doubts are set aside, for fear of upsetting the group's balance.'

## Links

- ❖ Google News
- ❖ Dr Carl E. Baum's EMP theory and interaction notes
- ❖ The Atomic Heritage Foundation
- ❖ Radiation Effects Research Foundation lumps data together to cover up benefits of low dose radiation in Hiroshima and Nagasaki Life Span Study!
- ❖ DTRA (Defense Threat Reduction Agency) Nuclear testing histories (PDF files)
- ❖ Samuel Glasstone and Philip J. Dolan
- ❖ Carl F. Miller's fallout research at nuclear tests
- ❖ British Home Office Scientific Advisory Branch
- ❖ Samuel Cohen's book about the collateral damage averting, invasion-deterring neutron bomb he invented, and the lying political attacks he endured as a result
- ❖ Jerry Emanuelson's review of EMP facts, including the direct dependence of the EMP on the Earth's natural magnetic field strength at the burst location
- ❖ Essays by 1950s American nuclear weapon effects test

- (and neutron bomb design)
  - experts, discrediting anti-civil defence propaganda
    - ❖ Neutron bomb inventor Samuel Cohen's 2006 book on the history of the neutron bomb, the most moral weapon ever invented due to its purely military deterrent capabilities, and the pseudo-scientific propaganda war he has had to endure from the enemies of deterrence
    - ❖ Karl-Ludvig Grønhaug's EMP reports page with useful PDF downloads on prompt EMP and MHD-EMP measurements from nuclear tests (Norwegian language)
    - ❖ Colonel Derek L. Duke's factual book on nuclear weapons accidents, *Chasing Loose Nukes, as told to Fred Dungan*
    - ❖ The H-Bomb and the birth of the Universe: 'For 100 Million years after time began, the universe was dark as pitch. The clouds of hydrogen condensed into huge nuclear fireballs. That moment-when the universe first lit up-was the moment of creation that matters.'
    - ❖ American *EMP Interaction* manual: comprehensive theory of both the EMP source mechanism and the EMP pick-up in cables and antenna by electromagnetic inductance (30 MB PDF file)
    - ❖ British Mission to Japan, *The Effects of the Atomic Bombs at Hiroshima and Nagasaki*, H. M. Stationery Office, London, 1946 (high quality 42.5 MB pdf file).
    - ❖ 1950 edition (high quality 82.7 MB PDF file) of U.S. Department of Defense book *The Effects of Atomic Weapons*
    - ❖ 1957 edition (high quality

[90.8 MB PDF file](#)) of subsequently deleted sections on nuclear tests of civil defense countermeasures from U.S. Department of Defense book *The Effects of Nuclear Weapons*  
❖ 1957 edition (low quality 30.6 MB PDF file) of entire U.S. Department of Defense book *The Effects of Nuclear Weapons*  
❖ 1962/64 edition (high quality 188 MB PDF file) of major revised sections in the U.S. Department of Defense book *The Effects of Nuclear Weapons*  
❖ 1962/64 edition (high quality 43.8 MB PDF file) of 74 pages of subsequently deleted material dealing with thermal ignition of houses at nuclear tests and civil defense countermeasures chapter, from the U.S. Department of Defense book *The Effects of Nuclear Weapons*  
❖ 1977 edition (single 36.8 MB PDF file) of U.S. Department of Defense book *The Effects of Nuclear Weapons*  
❖ U.S. Pacific nuclear test effects reports library; documents available on line as PDF files  
❖ U.S. Department of Energy Opennet Documents Online (includes many Nevada nuclear test reports as PDF files)  
❖ Defense Technical Information Center (DTIC)'s Scientific and Technical Information Network (STINET) Service (other declassified Nevada and Pacific test reports)  
❖ Highlights from ABM testing history  
❖ THAAD Goes Another ABM

**Test**

- ❖ Wm. Robert Johnston's nuclear testing statistics
- ❖ Wm. Robert Johnston's list of high altitude nuclear tests
- ❖ Carey Sublette's Nuclear Weapon Archive (it contains errors from Chuck Hansen's compilation, and it is concentrated on bomb building, not on civil defence countermeasure evaluations done at nuclear tests)

- Quantum Field Theory
- Los Alamos Science journal
- Excellent particle physics gauge theory (fundamental force interaction) issue of Los Alamos Science journal

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